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VOL. XX

DECEMBER, 1923

NO. 5

BULLETIN OF BROWN UNIVERSITY

THE CATALOGUE

1923-1924



PROVIDENCE
PUBLISHED BY THE UNIVERSITY

[JANUARY, APRIL, MAY, OCTOBER, DECEMBER]

CORRESPONDENCE

Correspondence addressed simply to Brown University, Providence, Rhode Island, may be expected to reach the proper department, but in order to avoid delay correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Corporation, and all correspondence bearing upon the general interests of the University, should be addressed to the President.

Requests for the Annual Catalogue and other publications, and general inquiries from prospective students should be addressed to the Executive Secretary.

Definite inquiries relating to admission to the Freshman Class or to Advanced Standing should be addressed to the Registrar.

Inquiries concerning scholarships should be addressed to the Secretary of the Committee on Scholarships.

Inquiries concerning other matters pertaining to Undergraduate students should be addressed to the Dean of the University.

Inquiries in regard to the Graduate Department should be addressed to the Dean of the Graduate Department.

Inquiries concerning the Women's College should be addressed to the Dean of the Women's College, Pembroke Hall.

Inquiries or information concerning Alumni should be sent to the Keeper of Graduate Records, John Hay Library.

THE CATALOGUE
OF
BROWN UNIVERSITY

ONE HUNDRED AND SIXTIETH YEAR

1923-1924



PROVIDENCE, RHODE ISLAND
PUBLISHED BY THE UNIVERSITY

1923

D. R. UPDIKE · THE MERRYMOUNT PRESS · BOSTON

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CALENDAR FOR 1923-1924-1925

Vacations and Holidays occurring within the Academic Year 1923-1924 are indicated by dark type.

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THE UNIVERSITY CALENDAR FOR 1923-1924

1923

September 5, Wednesday. Annual Meeting of the Corporation.

September 17-24, Monday to Monday, inclusive. Examinations for admission to the Freshman class and to advanced standing.

September 20, Thursday. Psychological tests for all applicants for admission as Freshmen or Special Students (except in the Women's College).

September 24, 25, Monday and Tuesday. Registration of new students and enrolment of students previously in residence.

September 26, Wednesday, 9 a.m. ACADEMIC YEAR BEGINS (fourth Wednesday in September).

September 27-October 4, Thursday to Thursday. Registration and enrolment of Graduate students at the Registrar's office.

October 10, Wednesday. Examination in Greek for the President's Premiums, 2 Sayles Hall, 2.30 p.m.

October 17, Wednesday. Examination in Latin for the President's Premiums, 1 Sayles Hall, 2.30 p.m.

October 24, Wednesday. Examination in Mathematics for the Harts-horn Premiums, 26 Wilson Hall, 2 p.m.

Meeting of the Corporation.

October 31, Wednesday. Examination in French for the Hicks Premiums, 1 Sayles Hall, 2.30 p.m.

November 7, Wednesday. Examination in German for the Caesar Misch Premiums, 5 Sayles Hall, 2.30 p.m.

November 29, Thursday. Thanksgiving Day: no University exercises.

December 7, Friday. Class of 1880 Prize, essays due.

December 11, Tuesday. Class of 1880 Prizes, preliminary discussion.

December 18, Tuesday. Class of 1880 Prizes, public discussion.

December 21, Friday. CHRISTMAS RECESS BEGINS.

1924

January 2, Wednesday. CHRISTMAS RECESS ENDS.

January 3, Thursday, 8 a.m. Recitations begin.

January 5, Saturday. Gaston Prize Medal, essays due.

January 12, Saturday. Bennett Prize, essays due.

January 15, Tuesday. Applications for examinations on entrance conditions due.

January 19, Saturday. Carpenter Prizes in Elocution, applications of competitors due.

January 30–February 8, Wednesday to Friday, inclusive. Semester examinations.

February 5–11, Tuesday to Monday. Mid-year examinations for admission to the Freshman class.

February 9–12, Saturday to Tuesday, inclusive. MID-YEAR RECESS.

February 11, 12, Monday and Tuesday. Enrolment of Undergraduate students and candidates for admission to the Freshman class.

February 13, Wednesday, 8 a.m. SECOND SEMESTER BEGINS.

February 14–16, Thursday to Saturday. Enrolment of Graduate students at the Registrar's office.

February 14, Thursday. Bishop McVickar Prizes, applications of competitors due.

February 19, Tuesday. Gaston Prize Medal Competition.

February 28, Thursday. Society of Colonial Dames Prize, applications of competitors due.

March 12, Wednesday. Roosevelt Prize, essays due.

April 1, Tuesday. Applications for examination for the degree of Doctor of Philosophy due.

April 3–9, Thursday to Wednesday, inclusive. SPRING RECESS.

April 10, Thursday, 8 a.m. Recitations begin.

April 14, Monday. Bishop McVickar Prizes, essays due.

April 15, Tuesday. Grand Army of the Republic Fellowship, applications of competitors due.

Roosevelt Prize Competition.

Theses of candidates for the degree of Doctor of Philosophy due.

April 22, Tuesday. Carpenter Prize Speaking Competition.

April 26, Saturday. Society of Colonial Dames Prize, essays due.

April 30, Wednesday. Examination in Greek for the Foster Premium.

May 7, Wednesday. Meeting of the Board of Fellows.

May 13, Tuesday. Hicks Prize Debate.

May 14, Wednesday. Examination in Latin for the Lucius Lyon Premiums.

May 24, Saturday. Class of 1873 Prize, essays due.

May 30, Friday. Memorial Day : no University exercises.

June 2, Monday. Last day for examinations for the degree of Doctor of Philosophy.

June 3-12, Tuesday to Thursday, inclusive. Semester examinations.

June 15, Sunday. Baccalaureate Sermon, First Baptist Meeting House, 4.30 p.m.

June 16, Monday. Class Day.

June 17, Tuesday. Annual Meeting of the Phi Beta Kappa Society, Administration Building, 9.30 a.m.

Meeting of the Board of Fellows.

Annual Meeting of the Associated Alumni.

Ivy Day, Pembroke Hall.

June 18, Wednesday. ONE HUNDRED AND FIFTY-SIXTH ANNUAL COMMENCEMENT (third Wednesday in June), First Baptist Meeting House, 10 a.m.

June 19, Thursday. Meeting of the Corporation.

June 19-September 23. SUMMER VACATION.

September 3, Wednesday. Annual Meeting of the Corporation.

September 15-22, Monday to Monday, inclusive. Examinations for admission to the Freshman class and to advanced standing.

September 18, Thursday. Psychological tests.

September 22, 23, Monday and Tuesday. Registration of new students and enrolment of students previously in residence.

September 24, Wednesday, 9 a.m. ACADEMIC YEAR BEGINS (fourth Wednesday in September).

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† On leave of absence during the second semester 1923-24.

‡ On leave of absence during the first semester 1923-24.

§ On leave of absence during the academic year 1923-24.

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† On leave of absence during the academic year 1923-24.

‡ On leave of absence during the second semester 1923-24.

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WAYNE MOODY FAUNCE, Sc.B. <i>Instructor in Engineering</i>	705 Hope Street
PERCY MARKS, B.L., A.M. <i>Instructor in English</i>	175 Thayer Street
ANTONIO JESUS RUBIO, D.V.M. <i>Instructor in Spanish</i>	Rehoboth, Mass.
ARTHUR OWEN HICKSON, A.B. <i>Instructor in Mathematics</i>	19 Barnes Street
JAMES HAMPTON FITHIAN, A.B. <i>Instructor in Mathematics</i>	648 Hope Street
HERVEY CRANDALL HICKS, Sc.M. <i>Instructor in Mathematics</i>	432 Morris Avenue
MERRILL EDGAR SHOUP, A.B., M.C.S. <i>Instructor in Economics</i>	140 Morris Avenue
ROLLIN DONALD MOORE, A.M. <i>Instructor in English</i>	175 Thayer Street

ROY ALFRED WAGGENER, A.M. <i>Instructor in Biology</i>	244 Bowen Street
ANDREW HAMILTON MACPHAIL, PH.D. <i>Instructor in Education</i>	360 Lockwood Street
ZENAS RANDALL BLISS, PH.B., SC.M. <i>Instructor in Engineering</i>	239 Armington Street, Edgewood
FRANCIS LLOYD SIMONS, PH.D. <i>Instructor in Chemistry</i>	Metcalf Laboratory
STEPHEN ALBERT FREEMAN, PH.D. <i>Instructor in French</i>	60 Duncan Avenue
BRADFORD WILLARD, PH.D. <i>Instructor in Geology</i>	12 Linden Street
PAUL NEFF GARBER, PH.D. <i>Instructor in History</i>	13 Brown Street
CLARENCE RAYMOND ADAMS, PH.D. <i>Instructor in Mathematics</i>	100 Charles Field Street
CLIFFORD CHESLEY HUBBARD, A.M. <i>Instructor in Political Science</i>	520 Manton Avenue
CLIFFORD KIRKPATRICK, A.M. <i>Instructor in Social Science</i>	33 Angell Street
CHARLES ARTHUR STUART, PH.D. <i>Instructor in Biology</i>	439 Plain Street
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OFFICERS OF ADMINISTRATION AND INSTRUCTION 19

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ALFRED HERRMANN, A.M. <i>Instructor in German</i>	22 Arch Street
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MARJORIE BROWN <i>Director of Hygiene and Physical Education in the Women's College</i>	55 Waterman Street
ADELE MADELEINE WILDES, A.M. <i>Instructor in Latin in the Women's College</i>	80 Massasoit Avenue, Edgewood

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JAMES FRANKLIN COLLINS, Ph.B. <i>Demonstrator in Botany; Curator of the Herbarium</i>	13 Brown Street
HERBERT OLIN BRIGHAM <i>Associate in Comparative Legislation</i>	359 Brook Street
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HENRY PARKER MANNING, Ph.D. <i>Lecturer in Mathematics</i>	69 Weymouth Street
RICHARD DAY ALLEN, Ph.D. <i>Lecturer in Education</i>	112 Everett Avenue
TOWNES MALCOLM HARRIS, A.M., M.B.A. <i>Lecturer in Accounting</i>	34 George Street

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JOHN HENRY ASHTON	46 Pitman Street
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<i>Physician to the University</i>	

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BROWN UNIVERSITY

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ALICE ADAMS <i>Cataloguer</i>	34 Hawthorne Avenue, Eden Park

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EDUCATIONAL ADVICE AND DIRECTION

Dean BURWELL, Professors EVERETT, HILL, GREENE, BROWN, WALTER, HASTINGS, P. H. MITCHELL, DAVISON, BURGESS, CRANE, ADAMS, BERARD, CLOUGH, BERRIDGE, MASON, EKSTROM, WILSON, Dr. MACPHAIL, Mr. APPLEGET.

CURRICULUM

Professors DEALEY, MEAD, DAMON, BENEDICT, RICHARDSON, HUNKINS, COLLIER, and BADGER.

STUDENT ORGANIZATIONS

Professors HILL, MARVEL, P. H. MITCHELL, ARNOLD, SNELL, and ADAMS.

† For other committees on which the Faculty is represented, see page 11.

SCHEDULES

Mr. GUILD, Professors PALMER, DAVISON, BURGESS, and EKSTROM.

UNIVERSITY EXTENSION

Professors JACOBS, CROWELL, WATSON, KENERSON, CROSBY, and DRURY.

PRIZES AND ACADEMIC HONORS

Professors HASTINGS, HUNTINGTON, ARCHIBALD, CHAMBERS, CRANE, and BERRIDGE.

DEGREES OUT OF COURSE

Professors RANDALL, DEALEY, POTTER, GREENE, and CROSBY.

GRADUATE COUNCIL

Dean BARUS, Professors MEAD, FOWLER, RICHARDSON, and COLLIER.

CONSULTATION BETWEEN THE CORPORATION AND THE FACULTY

Messrs. CHACE, GREEN, and DORMAN, Professors GARDNER, HILL, and FOWLER.

LIBRARY

The President, Messrs. PECK, STEDMAN, CHAFEE, and WILLIAMS, the LIBRARIAN, Professors EVERETT, ARCHIBALD, CLOUGH, and GEORGE, Mr. C. A. COLLINS, JR.

COUNCIL OF THE SCHOOL OF EDUCATION

Professor JACOBS (*Director*), Dean MORRIS, Dean BARUS, Professor EKSTROM, Dr. MACPHAIL, *all ex officio*; Professors WALTER, DAVISON, ARCHIBALD, BENEDICT, SMITH, CROWELL, CRANE, and DEALEY.

ADMISSION TO THE UNIVERSITY

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ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES ‡

For Students who entered in 1921 or thereafter

BACHELOR OF ARTS. Fifteen units as follows: three in English; one in Algebra; one in Plane Geometry; one in History; five in Foreign Languages including either three in Latin or two in Greek; and four elective units of which two may be in "Unlisted Subjects."

BACHELOR OF PHILOSOPHY. Fifteen units as follows: three in English; one in Algebra; one in Plane Geometry; one in History; two in one foreign language; and seven in elective subjects of which three may be in "Unlisted Subjects."

BACHELOR OF SCIENCE IN ENGINEERING. Fourteen and one-half units as follows: three in English; two in Algebra; one in Plane Geometry; one-half in Solid Geometry; one in History; three from the following subjects: Chemistry, Physics, Languages other than English; and four in elective subjects of which two may be in "Unlisted Subjects."

ENTRANCE UNITS. A unit represents a year's study, constituting approximately a quarter of a full year's work in a secondary school. It is assumed that the length of the school year is from thirty-six to forty weeks, that a period is from forty to sixty minutes in length, and that the study is pursued for four or five periods a week.

LISTED SUBJECTS

	<i>Units</i>		<i>Units</i>
English A (Grammar and Composition)	1½	Elementary Latin (Third year)	1
English B (Literature)	1½	Advanced Latin	1
Ancient History	1	Elementary Greek (First year)	1
Medieval and Modern European History	1 or 2	Elementary Greek (Second year)	1
English History	1	Advanced Greek	1
American History and Civil Government	1	Elementary French (First year)	1
American History	1	Elementary French (Second year)	1
Civil Government	½ or 1	Intermediate French	1
Elementary Latin (First year)	1	Advanced French	1
Elementary Latin (Second year)	1	Elementary German (First year)	1
		Elementary German (Second year)	1
		Intermediate German	1
		Advanced German	1

‡ For requirements for the degree of Bachelor of Education, see page 67.

	<i>Units</i>		<i>Units</i>
Elementary Spanish (First year)	1	Solid Geometry	$\frac{1}{2}$
Elementary Spanish (Second year)	1	Plane Trigonometry	$\frac{1}{2}$
Intermediate Spanish	1	Physics	1
Elementary Italian (First year)	1	Chemistry	1
Elementary Italian (Second year)	1	Mechanical Drawing	1
Intermediate Italian	1	Botany	$\frac{1}{2}$ or 1
Elementary Algebra 1	1	Physiography	$\frac{1}{2}$ or 1
Elementary Algebra 2	1	Astronomy	$\frac{1}{2}$ or 1
Advanced Algebra	$\frac{1}{2}$	Biology	$\frac{1}{2}$ or 1
Plane Geometry	1	Zoölogy	$\frac{1}{2}$ or 1

UNLISTED SUBJECTS. Subjects not on the regular list may be presented by certificate only; provided: (1) That the candidate is a graduate of an approved school; (2) That the subjects were accepted toward graduation by the school in which they were taken; (3) That no subject will be accepted for more than one unit or for less than one-half unit; (4) That not more than two half-unit subjects will be accepted without the approval of the Committee on Registration.

ADMISSION AT MID-YEAR

Mid-winter graduates of preparatory schools will be admitted to the courses leading to the degrees of Bachelor of Arts and Bachelor of Philosophy at the beginning of the second semester. Candidates for the degree of Bachelor of Science are admitted only in September. For detailed statements, see pages 24-50, 51.

METHODS OF ADMISSION TO THE FRESHMAN CLASS

EXAMINATIONS CONDUCTED BY THE UNIVERSITY.‡ Examinations for admission are given by the University in September and at mid-year. Candidates desiring to be examined in June must take the examinations of the College Entrance Examination Board; see page 27. A candidate may take all his examinations in June or in September, or part in June and part in September.

Before taking any examination conducted by the University, a candidate must make application to the Registrar, on a blank provided for the purpose. This may be done by correspondence, provided that the application is received not less than one week before the date of the first examination. A letter of recommendation from the principal of the school must be filed with the application.

‡ Examinations for admission by the Comprehensive Examination Plan will not be given by the University except in September. Students desiring to enter by this plan can take the necessary Board Examinations in June. (See pages 27, 28.)

Any of the September examinations may be taken one year before admission. The mid-year examinations cannot be taken as preliminaries.

No credit beyond admission is given for certificates or for entrance examinations. If a candidate offers subjects in excess of those required for admission and desires to obtain credit for them as college subjects, he may apply to the Committee on Registration for special examinations. Such examinations are not given in all preparatory subjects.

Examinations for advanced standing should be taken during the regular examination period in September. No student will be allowed to take such examinations after the beginning of the second year.

The mid-year entrance examinations will be held in Rhode Island Hall, Room 2; the September examinations will be held in Manning Hall.

The order of the examinations in 1924 will be as follows:

FEBRUARY 5, 1924, and SEPTEMBER 15, 1924

Elementary Algebra (1), 8 a.m. to 10 a.m.; *Elementary Algebra* (2), 8 a.m. to 10 a.m.; *Elementary Algebra* (1 and 2), 8 a.m. to 10 a.m.; *Plane Geometry*, 10.30 a.m. to 12.30 p.m.; *Elementary Latin* (First year), 1.30 p.m. to 3.30 p.m.; *Elementary Latin* (Two years), 1.30 p.m. to 3.30 p.m.; *Elementary Latin* (Three years), 1.30 p.m. to 3.30 p.m.; *Elementary Latin* (Third year), 1.30 p.m. to 3.30 p.m.; *Advanced Latin*, 4 p.m. to 5.30 p.m.; *Latin* (Comprehensive 2), 1.30 p.m. to 4.30 p.m.; *Latin* (Comprehensive 3), 1.30 p.m. to 4.30 p.m.; *Latin* (Comprehensive 4), 1.30 p.m. to 4.30 p.m.; *Civil Government*, 4.45 p.m. to 6.45 p.m.

FEBRUARY 6, 1924, and SEPTEMBER 16, 1924

English A, 8 a.m. to 10 a.m.; *English B*, 10.15 a.m. to 12.15 p.m.; *English* (Comprehensive), 8 a.m. to 11 a.m.; *Chemistry*, 1 p.m. to 3 p.m.; *Chemistry* (Comprehensive), 1 p.m. to 4 p.m.; *English History*, 3.15 p.m. to 5.15 p.m.; *Ancient History*, 5.30 p.m. to 7.30 p.m.; *Zoölogy*, 5.30 p.m. to 7.30 p.m.

FEBRUARY 7, 1924, and SEPTEMBER 17, 1924

Elementary German (First year), 8 a.m. to 10 a.m.; *Elementary German* (Second year), 10.15 a.m. to 12.15 p.m.; *German* (Comprehensive 2), 8 a.m. to 11 a.m.; *German* (Comprehensive 3), 8 a.m. to 11 a.m.; *Intermediate German*, 1 p.m. to 3 p.m.; *Advanced German*, 1 p.m. to 3 p.m.; *American History*, 3.15 p.m. to 5.15 p.m.; *American History and Civics*, 3.15 p.m. to 5.15 p.m.; *History* (Comprehensive), 3.15 p.m. to 6.15 p.m.; *Physiography*, 5.30 p.m. to 7.30 p.m.

FEBRUARY 8, 1924, and SEPTEMBER 19, 1924

Elementary French (First year), 8 a.m. to 10 a.m.; *Elementary French* (Second year), 10.15 a.m. to 12.15 p.m.; *French* (Comprehensive 2), 8 a.m. to 11 a.m.; *French* (Comprehensive 3), 8 a.m. to 11 a.m.; *Intermediate French*, 1 p.m. to 3 p.m.; *Advanced French*, 1 p.m. to 3 p.m.; *Astronomy*, 3.15 p.m. to 5.15 p.m.; *Elementary Italian* (First year), 3.15 p.m. to 5.15 p.m.;

Elementary Italian (Second year), 3.30 p.m. to 5.30 p.m.; *Italian (Comprehensive 2)*, 3.15 p.m. to 6.15 p.m.; *Italian (Comprehensive 3)*, 3.15 p.m. to 6.15 p.m.

FEBRUARY 9, 1924, and SEPTEMBER 20, 1924

Plane Trigonometry, 8 a.m. to 10 a.m.; *Mathematics (Comprehensive 2)*, 8 a.m. to 11 a.m.; *Mathematics (Comprehensive 3)*, 8 a.m. to 11 a.m.; *Mathematics (Comprehensive 3½)*, 8 a.m. to 11 a.m.; *Mathematics (Comprehensive 4)*, 8 a.m. to 11 a.m.; *Solid Geometry*, 10.15 a.m. to 12.15 p.m.; *Advanced Algebra*, 1 p.m. to 3 p.m.; *Physics*, 3.15 p.m. to 5.15 p.m.; *Physics (Comprehensive)*, 3.15 p.m. to 6.15 p.m.; *Botany*, 5.30 p.m. to 7.30 p.m.; *Intermediate Italian (Third year)*, 5.30 p.m. to 7.30 p.m.; *Mechanical Drawing*, 1 p.m. to 3 p.m.

FEBRUARY 11, 1924, and SEPTEMBER 22, 1924

First year Greek, 8 a.m. to 10 a.m.; *Elementary Greek*, 8 a.m. to 10 a.m.; *Advanced Greek*, 10.15 a.m. to 11.45 a.m.; *Greek (Comprehensive 2)*, 8 a.m. to 11 a.m.; *Greek (Comprehensive 3)*, 8 a.m. to 11 a.m.; *Elementary Spanish (First year)*, 12.30 p.m. to 2.30 p.m.; *Elementary Spanish (Second year)*, 2.45 p.m. to 4.45 p.m.; *Intermediate Spanish*, 5 p.m. to 7 p.m.; *Biology*, 8 a.m. to 10 a.m.; *Spanish (Comprehensive 2)*, 12.30 p.m. to 3.30 p.m.; *Spanish (Comprehensive 3)*, 12.30 p.m. to 3.30 p.m.; *Medieval and Modern History (1)*, 5 p.m. to 7 p.m.; *Medieval and Modern History (2)*, 5 p.m. to 7 p.m.

EXAMINATIONS CONDUCTED BY THE COLLEGE ENTRANCE EXAMINATION BOARD. These examinations are accepted in place of the corresponding examinations of the University, provided they are passed with a grade of at least 60 per cent. In 1924 these examinations will be held June 16-21.

Applications must be sent to the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. Forms may be obtained from the Secretary of the Board. Applications for examination in the United States east of or on the Mississippi River must be received on or before May 26, 1924; for examination elsewhere in the United States or in Canada, on or before May 19, 1924; and for examination outside the United States or Canada, on or before May 5, 1924. When the candidate has failed to obtain the blank form of application, the examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination centre at which he wishes to present himself, and a list of the subjects in which he desires to take examinations.

The fee is \$9 for examinations in the United States and Canada, and \$20 for examinations outside of the United States and Canada. The fee, which must be sent with the application, should be remitted by postal order, express order, or draft on New York, to the order of the College Entrance Examination Board.

Applications received after the dates named will be accepted if it is possible to arrange for the admission of the candidates, on payment of \$9 in addition to the regular fee.

A list of the places at which examinations are to be held in June, 1924, will be published about March 1. Requests that the examinations be held at particular points should be sent to the Secretary of the Board not later than February 1.

ADMISSION BY CERTIFICATE. In place of examinations, certificates are accepted from any school on the accredited list of Brown University.

Principals of schools in New England who desire the certificate privilege for Brown University, or for any other college which is a member of the New England College Entrance Certificate Board, should apply to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Conn., for application blanks. These blanks must be returned to him before April 1 of the year for which the certificate privilege is desired.

Principals of schools outside of New England who desire the certificate privilege should apply to the Registrar of the University before May 1, if possible. Blank forms will be supplied on request. If approved, the school will be placed on the accredited list for a period of from one to three years. At the expiration of this period, or whenever a change in policy is instituted, a new application should be made.

Certificates from the New York Board of Regents are accepted so far as they coincide with the entrance requirements of the University.

Blank forms for certification may be obtained from the Registrar by the principals of accredited schools. These forms should be returned by July 1 for students intending to enter in September, or by January 15 for students intending to enter at mid-year. When a student has attended more than one school, a letter of recommendation from the principal of the school last attended must accompany the certificate.

ADMISSION BY COMPREHENSIVE EXAMINATIONS. To be admitted by the comprehensive examinations plan a candidate (1) must present evidence of an approved school course satisfactorily completed; and (2) must show in four examinations that his scholarship is of a satisfactory quality.

A candidate must present to the Committee on Admission evidence of his secondary school work in the form of an official detailed statement showing (a) the subjects studied by him and the ground covered; (b) the amount of time devoted to each; (c) the quality of his work in each subject.

To be approved, this statement must show (a) that the candidate's secondary school course has extended over four years; (b) that his course has been concerned chiefly with languages, science, mathematics, and history, no one of which studies has been omitted; (c) that two of the studies of his school program have been pursued beyond their elementary stages.

If the official detailed statement is approved, he may take comprehensive examinations in four subjects, as follows :

(a) English	three units
‡ (b) One Foreign Language	at least two units
§ (c) Mathematics	at least two units
(d) Chemistry, or Physics, or History, or one Foreign Language (not offered in b)	at least two units

Each examination must cover the full amount of work taken in the subject at the preparatory school, which in no case may be less than the number of units assigned above.

The four examinations must be taken at one time, either with the Entrance Examination Board in June, or at the University in September. A candidate under this plan will be admitted without conditions or refused admission. In case he is refused, his record in all the examinations is cancelled so far as this plan is concerned, but he may count the examinations passed toward the fifteen units required under the other plans.

All candidates must apply for admission to either the June or the September examinations, and must receive official authorization to take them. For this reason the applications must be filed with the Registrar of the University as far in advance as possible, in any case not less than three weeks before the date of the first examination. The formal detailed statement of the school record must be filed with the application. Blank forms will be furnished on request.

ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS||

ENGLISH. *Three units.* Preparation in English has two main objects, of equal importance: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

GRAMMAR AND COMPOSITION. The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in all written work during the whole course. The principles governing punctuation, diction, sentences, paragraphs, and the whole composition should be carefully studied; and practice in composition, oral as well as

‡ Candidates for the degree of Bachelor of Arts must present in (b) at least three units in Latin or two units in Greek.

§ Candidates for the degree of Bachelor of Science must present in (c) at least two units in Algebra, one unit in Plane Geometry, and one-half unit in Solid Geometry.

|| These statements of requirements are substantially the same as those in the Report of the College Entrance Examination Board. Teachers are advised to consult this report, which may be secured from the Secretary, 431 West 117th St., New York.

written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Special instruction in language and composition should be accompanied by concerted effort of teachers, whatever subjects they teach, to cultivate in the student the habit of using good English in all recitations and exercises, whether oral or written.

LITERATURE. The second object requires intelligent reading in considerable amount. The student should read carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and the charm of what he reads. He should be trained in reading aloud, and should be encouraged to commit to memory notable passages both in verse and in prose. He should learn the most important facts in the lives of the authors whose works he reads, and know their place in literary history.

Candidates will have the option of taking either of two examinations: (1) a "Restricted" examination, based in part on a prescribed list of books; (2) a "Comprehensive" examination.

RESTRICTED EXAMINATION

The examination will be divided into two parts, each occupying two hours: *English a*, on grammar and composition, and the books for *Reading*; and *English b*, on the books for *Study*.

English A

GRAMMAR AND COMPOSITION. The candidate may be asked to construe sentences, to parse words, and to correct mistakes in usage. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books listed below under *Reading*, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. Several subjects for essays, perhaps eight or ten, will be given, from which the candidate may make his own selections.

BOOKS FOR READING. The candidate may be asked general questions, to test his knowledge and appreciation of the books read in preparation for this part of the examination. *He will also be required to present to the examiner a list of these books, signed by the principal of the school in which he studied.*

English B

In this part of the examination the candidate will be asked questions upon the content and form of the books prescribed for *Study*, and upon the meaning

of words, phrases, and allusions. Questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

However accurate in subject-matter, no paper in either *English A* or *English B* will be considered satisfactory if it is seriously defective in punctuation, spelling, grammar, or other essentials of good usage.

PREScribed BOOKS FOR STUDENTS ENTERING IN 1924 AND 1925

Reading

From each group two selections are to be made, except that for any book in Group V a book from any other group may be substituted.

GROUP I. Dickens: *A Tale of Two Cities*. George Eliot: *Silas Marner*. Scott: *Quentin Durward*. Stevenson: *Treasure Island* or *Kidnapped*. Hawthorne: *The House of the Seven Gables*.

GROUP II. Shaksperc: *The Merchant of Venice*; *Julius Caesar*; *King Henry V*; *As You Like It*.

GROUP III. Scott: *The Lady of the Lake*. Coleridge: *The Ancient Mariner*; and Arnold: *Sohrab and Rustum*. A collection of representative verse, narrative and lyric. Tennyson: *Idylls of the King* (any four). The *Æneid* or the *Odyssey* in a translation of recognized excellence, with the omission, if desired, of Books I-V, XV, and XVI of the *Odyssey*.

GROUP IV. *The Old Testament*: the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. Irving: *The Sketch Book* (about 175 pages). Addison and Steele: *The Sir Roger de Coverley Papers*. Macaulay: *Lord Clive*. Parkman: *The Oregon Trail*. Franklin: *Autobiography*.

GROUP V. A modern novel. A collection of short stories (about 150 pages). A collection of contemporary verse (about 150 pages). A collection of prose writings on matters of current interest (about 150 pages). Two modern plays.

All selections from this group should be works of recognized excellence.

Study

One selection is to be made from each group.

GROUP I. Shaksperc: *Macbeth*; *Hamlet*.

GROUP II. Milton: *L'Allegro*; *Il Penseroso*; and either *Comus* or *Lycidas*. Browning: *Cavalier Tunes*; *The Lost Leader*; *How They Brought the Good News from Ghent to Aix*; *Home Thoughts from Abroad*; *Home Thoughts from the Sea*; *Incident of the French Camp*; *Hervé Riel*; *Pheidippides*; *My Last Duchess*; *Up at a Villa — Down in the City*; *The Italian in England*; *The Patriot*; *The Pied Piper*; “*De Gustibus —*”; *Instans Tyrannus*; *One Word More*.

GROUP III. Macaulay: *Life of Johnson*. Carlyle: *Essay on Burns*, with a brief selection from Burns's Poems. Arnold: *Wordsworth*, with a brief selection from Wordsworth's Poems.

GROUP IV. Burke: *Speech on Conciliation with America*. A collection of orations, to include at least Washington's *Farewell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

PREScribed BOOKS FOR STUDENTS ENTERING IN 1926, 1927, AND 1928

Reading

From each group two selections are to be made, except that for any book in Group V a book from any other group may be substituted.

GROUP I. Cooper: *The Last of the Mohicans*. Dickens: *A Tale of Two Cities*. George Eliot: *Silas Marner*. Scott: *Ivanhoe* or *Quentin Durward*. Stevenson: *Treasure Island* or *Kidnapped*. Hawthorne: *The House of the Seven Gables*.

GROUP II. Shakspeare: *The Merchant of Venice*; *Julius Cæsar*; *King Henry V. As You Like It*; *The Tempest*.

GROUP III. Scott: *The Lady of the Lake*. Coleridge: *The Ancient Mariner*; and Arnold: *Sohrab and Rustum*. A collection of representative verse, narrative and lyric. Tennyson: *Idylls of the King* (any four). The *Æneid* or the *Odyssey* in a translation of recognized excellence, with the omission, if desired, of Books i-v, xv, and xvi of the *Odyssey*. Longfellow: *Tales of a Wayside Inn*.

GROUP IV. *The Old Testament*: the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. Irving: *The Sketch Book* (about 175 pages). Addison and Steele: *The Sir Roger de Coverley Papers*. Macaulay: *Lord Clive* or *History of England*, Chapter III; Franklin: *Autobiography*. Emerson: *Self-Reliance* and *Manners*.

GROUP V. A modern novel. A collection of short stories (about 150 pages). A collection of contemporary verse (about 150 pages). A collection of scientific writings (about 150 pages). A collection of prose writings on matters of current interest (about 150 pages). A selection of modern plays (about 150 pages).

All selections from this group should be works of recognized excellence.

Study

One selection is to be made from each of Groups I and II, and two from Group III.

GROUP I. Shakspeare: *Macbeth*; *Hamlet*.

GROUP II. Milton: *L'Allegro*; *Il Penseroso*; and either *Comus* or *Lycidas*. Browning: *Cavalier Tunes*; *The Lost Leader*; *How They Brought the Good News from Ghent to Aix*; *Home Thoughts from Abroad*; *Home Thoughts from the Sea*; *Incident of the French Camp*; *Hervé Riel*; *Pheidippides*; *My Last Duchess*; *Up at a Villa—Down in the City*; *The Italian in England*; *The Patriot*; *the Pied Piper*; “*De Gustibus —*”; *Instans Tyrannus*; *One Word More*.

GROUP III. Burke: *Speech on Conciliation with America*; Macaulay: *Life of Johnson*. Arnold: *Wordsworth*, with a brief selection from Wordsworth's Poems. Lowell: *On a Certain Condescension in Foreigners*; and *Shakspeare Once More*.

The requirements for the “Restricted” examination are the same as those of the College Entrance Examination Board. Students who have credit for the Board examination English *a* (or 1) must take the Brown examination English *b*; those who have credit for the Board examination English *b* (or 2) must take the Brown examination English *a*.

COMPREHENSIVE EXAMINATION

This examination, occupying three consecutive hours, is intended to be a comprehensive test of the candidate's fitness to undertake college work in English. It is equivalent to the Board Comprehensive Examination.

The questions on grammar and composition will be similar in nature to those of the “Restricted” examination, and will afford the candidate an opportunity to show that he has a competent knowledge of English usage and can put his thoughts into good English.

The questions on literature will be designed to test power to understand and appreciate good literature rather than knowledge of particular books. Selections in prose and verse which the candidate presumably has not read will be set before him, and he will be questioned about their content and form. He will be expected to explain the meaning of passages of some difficulty; to distinguish between different styles and verse forms; and to show a knowledge of the simpler principles of structure in novels and plays, with illustrations from works with which he is familiar. It will therefore be necessary for him to have read with care a considerable amount of literature similar in kind to the books for *Reading* and *Study* specified above.

MATHEMATICS. ELEMENTARY ALGEBRA 1. *One unit*. The requirement includes the following subjects: the four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions, and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations;

radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *a 1*.

ELEMENTARY ALGEBRA 2. *One unit.* The requirement includes quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; problems depending on quadratic equations; the binomial theorem for positive integral exponents; the formulae for the n th term, and the sum of the terms, of arithmetical and geometric progressions, with applications.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *a 2*.

It is assumed in both 1 and 2 that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

PLANE GEOMETRY. *One unit.* The requirement in Plane Geometry covers the usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle; the solution of numerous original exercises, including loci problems; applications to the mensuration of lines and plane surfaces.

Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. Mere memorizing should be avoided.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *c*.

SOLID GEOMETRY. *One-half unit.* The requirement in Solid Geometry covers the usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *d*.

PLANE TRIGONOMETRY. *One-half unit.* The requirement in Plane Trigonometry includes definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulae, in particular for the sine, cosine, and tangent of the sum and difference of two angles, of the double angle and half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigono-

metric expressions by means of these formulae; the solution of trigonometric equations of a simple character; the theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles; practical applications.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *f*.

ADVANCED ALGEBRA. *One-half unit.* The requirement in Advanced Algebra includes permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

This requirement is the same as that of the College Entrance Examination Board in Mathematics *b*.

LATIN. ‡ **ELEMENTARY LATIN.** *Three units.* The reading without the prescription of particular authors and works shall not be less in amount than Cæsar, *Gallie War*, Books I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias. The reading shall be selected from the following authors and works: Cæsar, *Gallie War* and *Civil War*, and Nepos, *Lives*; Cicero, orations, letters, and *De Senectute*, and Sallust, *Catiline* and *Jugurthine War*.

Candidates will be examined in translation at sight of passages from Cæsar and Cicero. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above. They will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias.

The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the years covered by the examination.

This requirement is the same as that of the College Entrance Examination Board in Latin 1, 2, 4.

ADVANCED LATIN. *One unit.* The reading shall not be less in amount than Virgil, *Æneid*, Books I-VI. This reading shall be selected from Virgil, *Bucolics*, *Georgics*, and *Æneid*, and Ovid, *Metamorphoses*, *Fasti*, and *Tristia*.

Candidates will be examined in translation at sight of passages from Virgil

‡ For students presenting by examination the full four-unit requirement in Latin, the examinations of the College Entrance Examination Board in Latin 1, 2, 4, 5 will be accepted.

and Ovid. They will be examined also upon the following prescribed reading: Virgil, *Aeneid*, Books I, II, and either IV or VI, at the option of the candidate. The examination will include questions on subject-matter and meter.

The requirement is the same as that of the College Entrance Examination Board in Latin 5, 6.

TWO-YEAR LATIN. *Two units.* The reading should not be less in amount than Cæsar, *Gallie War*, Books I-IV, and should be selected by the schools from Cæsar, *Gallie War* and *Civil War*, and Nepos, *Lives*. Candidates will be examined in translation at sight of passages from the above authors, and in grammar and composition.

The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the years covered by the examination.

This requirement is the same as that of the College Entrance Examination Board in Latin 3.

ONE-YEAR LATIN. Students desiring to take an examination for one unit credit must state this fact to the examiner.

GREEK. ELEMENTARY GREEK. *Two units.* The requirement in Elementary Greek includes: (1) Xenophon's *Anabasis*, Books I-IV, with attention not only to language, but to subject-matter as well; (2) grammar, including a familiar knowledge of inflection, word-formation, and ordinary syntax. This will be tested by: (a) questions on a passage from the *Anabasis*; (b) translation into Greek, with accents, of simple English sentences.

This requirement is the same as that of the College Entrance Examination Board in Greek a (i and ii), b, and g.

ADVANCED GREEK. *One unit.* The requirement in advanced Greek includes: (1) Three books of Homer's *Iliad* or *Odyssey*, with questions on meter, Homeric dialect, etc., or (upon request four weeks in advance of the examination) an equivalent amount of a prose author; (2) translation at sight of simple Attic prose or Homer; (3) translation into Greek with accents, of a continuous passage of English narrative, based upon material similar to the *Anabasis*.

This requirement is the same as that of the College Entrance Examination Board in Greek f and ch.

ONE-YEAR GREEK. Students desiring to take an examination for one unit credit must state this fact to the examiner.

FRENCH. ELEMENTARY FRENCH. FIRST YEAR. *One unit.* At the end of the first year the pupil should be able to pronounce French accurately, to translate

at sight very easy French prose, to put into French very simple English sentences taken from the language of every-day life or based upon the portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

During the first year the work should comprise: Careful drill in pronunciation; the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax, including the simpler uses of the conditional and subjunctive; abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; writing French from dictation.

As no examination in first-year French is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see pages 26, 27.

ELEMENTARY FRENCH. SECOND YEAR. *One unit.* At the end of the second year the pupil should be able to read and translate at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon the portion of the French text read, to write from dictation simple French sentences, and to answer questions on the rudiments of the grammar, as defined in the requirement for the first year, with the additions made below.

During the second year the work should comprise: The reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; constant practice, as in the previous year, in translating into French easy variations upon the texts read; frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; writing French from dictation; continued drill upon the rudiments of grammar, with constant application in the construction of sentences; mastery of the forms and use of pronouns, pronominal adjectives, and of all but the rare irregular verb forms.

Suitable texts for the second year are: About's *Le roi des montagnes*; Bruno's *Le tour de la France*; Daudet's easier short tales; La Bédollière's *La Mère Michel et son chat*; Erckmann-Chatrian's stories; Foa's *Contes biographiques* and *Le petit Robinson de Paris*; Foncin's *Le pays de France*; Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*; Legouvé and Labiche's *La cigale chez les fourmis*; Malot's *Sans famille*; Mairét's *La tâche du petit Pierre*; Mérimée's *Colomba*; extracts from Michelet; Sarcey's *Le siège de Paris*; Verne's stories.

The combined requirement in first and second year Elementary French is the same as that of the College Entrance Examination Board in French *a*.

INTERMEDIATE FRENCH. One unit. At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts for the third year are: About's stories; Augier and Sandeau's *Le gendre de M. Poirier*; Béranger's poems; Corneille's *Le Cid* and *Horace*; Coppée's poems; Daudet's *La Belle Nivernaise*; La Brète's *Mon oncle et mon curé*; Madame de Sévigné's letters; Hugo's *Hernani* and *La chute*; Labiche's plays; Loti's *Pêcheur d'Islande*; Mignet's historical writings; Molière's *L'avare* and *Le bourgeois gentilhomme*; Racine's *Athalie*, *Andromaque*, and *Esther*; George Sand's plays and stories; Sandeau's *Mademoiselle de la Seiglière*; Scribe's plays; Thierry's *Récits des temps mérovingiens*; Thiers's *L'expédition de Bonaparte en Egypte*; de Vigny's *La canne de jonc*; Voltaire's historical writings.

This requirement is the same as that of the College Entrance Examination Board in French *b*.

ADVANCED FRENCH. One unit. At the end of the advanced course the pupil should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose; and to carry on a simple conversation in French.

The work should comprise the reading of from 600 to 1000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable texts for the fourth year are: Dumas fils, *La question d'argent*; Hugo's *Quatre-vingt-treize* or *Les misérables*; Loti's *Pêcheur d'Islande*; Taine's *L'Ancien régime*; Vigny's *Cinq-Mars*; an anthology of verse.

This requirement is the same as that of the College Entrance Examination Board in French *c*.

GERMAN. ‡ ELEMENTARY GERMAN. FIRST YEAR. One unit. At the end of the first year the pupil should be able to read at sight, and to translate, a passage

‡ An oral test forms a part of all entrance examinations in German.

of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German simple English sentences taken from the language of every-day life or based upon the text given for translation, and to answer questions upon the rudiments of the grammar, as defined below.

During the first year the work should comprise: Careful drill upon pronunciation; the memorizing and frequent repetition of easy colloquial sentences; drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

As no examination in first-year German is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see pages 26, 27.

ELEMENTARY GERMAN. SECOND YEAR. *One unit.* At the end of the second year the pupil should be able to read at sight, and to translate, a passage of easy dialogue or narrative prose, help being given on unusual words and constructions, to put into German short English sentences, taken from the language of every-day life or based upon the text given for translation, to write from dictation simple German sentences, and to answer questions upon the rudiments of grammar, as defined in the requirement for the first year, with the additions made below.

During the second year the work should comprise: The reading of from 150 to 200 pages of literature in the form of easy stories and plays; accompanying practice in the translation into German of easy variations upon the matter read and also in the offhand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; writing German from dictation; continued drill upon the rudiments of the grammar and mastery of the adjective declensions, the passive, and word-order, in order that the pupil may use his knowledge with facility in the formation of sentences and state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem*

Christbaum; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

Among shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelm's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of about forty pages. After that, such a story as *Das kalte Herz* or *Der zerbrochene Krug*; then *Höher als die Kirche* or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

The combined requirement in first and second year elementary German is the same as that of the College Entrance Examination Board in German *a*.

INTERMEDIATE GERMAN. *One unit.* At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation, and to translate and explain a passage of classical literature taken from some text previously studied.

The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; writing connected German passages from dictation; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*,—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrfahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolf's Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*,—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterscher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Wildenbruch's *Das edle Blut*; a good anthology of German verse (such as Hatfield's or von Klenze's).

This requirement is the same as that of the College Entrance Examination Board in German *b*.

ADVANCED GERMAN. *One unit.* At the end of the advanced course the student should be able to read, after brief inspection, any German literature of the last one hundred and fifty years that is free from any unusual textual difficulties, to put into German a passage of simple English prose, to answer in German questions relating to the lives and works of great writers studied, and to write in German a short independent theme upon some assigned topic.

The work should comprise the reading of about 500 pages of good literature in prose and poetry, reference readings upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, independent translation of English into German.

Suitable texts for the fourth year are: Goethe's, Schiller's, Lessing's works and lives. At least six German poems should be committed to memory.

This requirement is the same as that of the College Entrance Examination Board in German c.

SPANISH. ELEMENTARY SPANISH. FIRST YEAR. *One unit.* At the end of the elementary course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of every-day life or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

During the first year the work should comprise: Careful drill in pronunciation; the rudiments of grammar, including the conjugation of the more regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the use of natural forms of expression; the reading and accurate rendering into good English of from 100 to 150 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; writing Spanish from dictation.

As no examination in first-year Spanish is given by the College Entrance Examination Board, this examination must be taken in September at Brown University; see pages 26, 27.

ELEMENTARY SPANISH. SECOND YEAR. *One unit.* At the end of the second year the pupil should be able to read and translate at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of every-day life, or based upon a portion of the text read, to write from dictation simple Spanish sentences, and to answer questions on the rudiments of the grammar, as defined in the requirement for the first year, with the additions made below.

During the second year the work should comprise: The reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; constant practice, as in the previous year, in translating into Spanish easy variations upon the text read; frequent abstracts,

sometimes oral and sometimes written, of portions of the text already read; writing Spanish from dictation; continued drill upon the rudiments of grammar, with constant application in the construction of sentences; mastery of the forms and use of pronouns, pronominal adjectives, and of all but the rare irregular verb forms.

Suitable texts for the second year are: Valera's *El Pájaro verde*; Alarcón's *Novelas Cortas*; Valdés's *José* and *La Hermana San Sulpicio*; selections from the works of Mesonero Romanos; Galdós's *Marianela*; Quintana's *La Vida de Nuñez de Balboa*; Padre Isla's version of *Gil Blas*; Carrión and Aza's *Zaraguëta*.

The combined requirement in first and second year Elementary Spanish is the same as that of the College Entrance Examination Board in Spanish a.

INTERMEDIATE SPANISH. *One unit.* At the end of the intermediate course the pupil should be able to read at sight ordinary Spanish prose or simple poetry, to translate into Spanish a connected passage of English based upon the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages of Spanish of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving Spanish paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts for the third year are: Becquer's *Tales, Legends, and Poetry*; Valera's *Pepita Jiménez*; Ibañez's *La Barraca*; Galdós's *Doña Perfecta*; Echegaray's *El Gran Galeoto*; Ayala's *Consuelo*; Gil y Zárate's *Guzmán el Bueno*; Pereda's *Pedro Sánchez*; Hills and Morley's *Modern Spanish Lyrics*; Ford's *Selections from Don Quijote*.

This requirement is the same as that of the College Entrance Examination Board in Spanish b.

ITALIAN. ELEMENTARY ITALIAN. FIRST YEAR. *One unit.* At the end of the first year the pupil should be able to pronounce Italian accurately, to translate at sight very easy Italian prose, to put into Italian very simple English sentences taken from the language of every-day life or based upon a portion of the Italian text read, and to answer questions on the rudiments of grammar as defined below.

During the first year the work should comprise: Careful drill in pronunciation, the rudiments of grammar, including the conjugation of the regular verbs and the more common irregular verbs (including those that suffer orthographical and radical changes); the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax, including the simpler uses of the subjunctive; abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction

of natural forms of expression ; the reading and accurate translation into good English of from 100 to 150 duodecimo pages of graduated texts, with translation into Italian of easy variations of the sentences read ; writing Italian from dictation.

ELEMENTARY ITALIAN. SECOND YEAR. *One unit.* At the end of the second year the pupil should be able to read and translate at sight easy Italian prose, to put into Italian simple English sentences taken from the language of everyday life, or based upon a portion of the Italian text read, to write from dictation simple Italian sentences, and to answer questions on the grammar.

During the second year the work should comprise: The reading of from 250 to 400 pages of easy prose or poetry ; constant practice in translating into Italian easy variations upon the text read ; frequent abstracts, sometimes oral and sometimes written, of portions of the text already read ; writing Italian from dictation ; continued drill upon the grammar, with constant application in the construction of sentences.

Suitable texts for the second year are: Manzoni's *I Promessi Sposi*, Levi; *Selections from Carducci*, Marinoni.

INTERMEDIATE ITALIAN. *One unit.* At the end of the intermediate course the pupil should be able to read at sight ordinary Italian prose or poetry, to translate into Italian a connected passage of English based upon the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 400 to 600 pages of Italian, including a considerable amount of Dante's *Divina Commedia* ; constant practice in giving Italian paraphrases, abstracts, or reproductions from memory of selected portions of the matter read ; the study of a grammar of moderate completeness ; writing from dictation.

As no examinations in Italian are given by the College Entrance Examination Board, the examinations in this subject must be taken in September at Brown University ; see pages 26, 27.

HISTORY. ANCIENT HISTORY. *One unit.* Greek history to the death of Alexander the Great and the break-up of his empire ; Roman history ; and early Medieval history, to the death of Charlemagne.

This requirement is the same as that of the College Entrance Examination Board in History *a*.

MEDIEVAL AND MODERN EUROPEAN HISTORY. *One unit.* European history from the death of Charlemagne to the present time.

This requirement is the same as that of the College Entrance Examination Board in History *b*.

MODERN HISTORY. *One unit.* European history, including colonial expansion and international relations, from about 1600 to the present time.

This requirement is the same as that of the College Entrance Examination Board in History *c*.

No candidate will receive credit in *both* History *b* and History *c* for less than *two years of study*.

ENGLISH HISTORY. *One unit.* The history of Great Britain and the British Empire from the Norman Conquest to the present time. Due emphasis should be laid upon the economic and social developments, as well as upon political events.

This requirement is the same as that of the College Entrance Examination Board in History *d*.

AMERICAN HISTORY. *One unit.*

This requirement is the same as that of the College Entrance Examination Board in History *e*.

CIVIL GOVERNMENT. *One-half for one unit.* Civil Government in the United States (national, state, and local), its constitution, organization, and actual working.

The half-unit requirement is the same as that of the College Entrance Examination Board in Civil Government *f*. The examination for one unit of credit will be open only to candidates who submit evidence of a full year of study in the subject.

AMERICAN HISTORY AND CIVIL GOVERNMENT. *One unit.* One year of study, two-thirds in American history, one-third in Civil Government.

This requirement is the same as that of the College Entrance Examination Board in American History and Civil Government *g*.

In order to obtain credit for *two units* in American history and civil government, a candidate must submit evidence of *two years* of study in these subjects.

The examinations in history will be so framed as to test the pupil's judgment as well as his memory. Adequate preparation will require the use of good text-books, collateral reading to the extent of at least 600 pages in each course, practice in written reports, and a knowledge of the geography of the countries studied. Frequent map exercises are strongly recommended.

Candidates will be required to submit a statement of all the reading done in preparation for the examination. Historical novels, plays, or poems will not be accepted in fulfillment of the requirement in collateral reading.

For detailed information in regard to content of courses and method of preparation candidates should consult the publications of the College Entrance Examination Board (see pages 27, 28 above).

PHYSICS. *One unit.* Preparation in Physics should include: (1) The study of one standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject. The student should be given opportunity and encouragement to consult other scientific literature; (2) instruction by lecture-

table demonstrations, to be used mainly for illustration of the facts and phenomena of physics in their qualitative aspects and in their practical applications; (3) individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least thirty. The work should be so distributed as to give a wide range of observation and practice. The aim of laboratory work should be to supplement the pupil's fund of concrete knowledge and to cultivate his power of accurate observation and clearness of thought and expression. The exercises should be chosen with a view to furnishing forceful illustrations of fundamental principles and their practical applications. They should be such as yield results capable of ready interpretation, obviously in conformity with theory, and free from the disguise of unintelligible units. Slovenly work should not be tolerated, and the effort for precision should not lead to the use of apparatus or processes so complicated as to obscure the principle involved.

Throughout the whole course special attention should be paid to the common illustrations of physical laws and to their industrial applications.

In the solution of numerical problems, the student should be encouraged to make use of the simple principles of algebra and geometry to reduce the difficulties of solution, but unnecessary mathematical difficulties should be avoided, and care should be exercised to prevent the student from losing sight of the concrete facts in the manipulation of symbols.

Every candidate must present as a part of the examination a note-book, certified by the teacher, containing in the candidate's own language a description of his laboratory exercises, with a careful record of the steps, observations, and results of each exercise. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw direct conclusions.

This requirement is the same as that of the College Entrance Examination Board in Physics.

CHEMISTRY. *One unit.* The following outline includes only the indispensable topics which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by the teacher.

OUTLINE. The chief physical and chemical characteristics, the preparation and the recognition of the following elements and their chief compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, silicon, potassium, sodium, calcium, magnesium, zinc, copper, mercury, silver, aluminium, lead, tin, iron, manganese, chromium.*

More detailed study should be confined to the italicized elements and to a restricted list of compounds, such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, manufacturing processes, familiar substances (illuminating gas, explosives, baking powder, mortar, glass, steel, common alloys, porcelain, soap).

Attention should be given also to combining proportions by weight and volume; calculations founded on these and on Boyle's and Charles's laws; symbols and nomenclature (with careful avoidance of special stress, since these are non-essential); atomic theory, atomic weights and valency in a very elementary way; nascent state; natural grouping of the elements; solution (solvents and solubility of gases, liquids, and solids; saturation); ionization; mass action and equilibrium; strength (= activity) of acids and bases; conservation and dissipation of energy; chemical energy (very elementary); electrolysis. Chemical terms should be defined and explained, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but should be taught only so far as is necessary for the correlation and explanation of the experimental facts.

It is recommended that the candidate's preparation in chemistry should include: (1) Individual laboratory work, comprising at least forty exercises; (2) instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations; (3) the study of at least one standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

Every candidate must present as a part of the examination, a note-book, certified by the teacher, containing in the candidate's own language a description of his laboratory exercises, with a careful record of the steps, observations, and results of each exercise. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw direct conclusions.

This requirement is the same as that of the College Entrance Examination Board in Chemistry.

BOTANY. *One unit.* The course should include a careful study of the general principles of Anatomy and Morphology, Physiology and Ecology; also the natural history of the plant groups, and classification.

Individual laboratory work by the student is essential and should receive at least double the amount of time given to recitation. Records of the laboratory work, properly certified by the teacher, in which stress is laid upon accurate drawing and precise description, must be presented at the time of examination.

Where special circumstances, such as exceptional difficulty of obtaining material, prevent the completion of the entire amount while allowing its equivalent in thoroughness, it is recommended that some of the minor topics be omitted rather than that the attempt be made to cover all more superficially.

To provide for this contingency, the examination papers will always include a number of alternative questions.

This requirement is the same as that of the College Entrance Examination Board in Botany.

PHYSIOGRAPHY. *One unit.* The candidate's preparation should include: (1) The study of one of the leading secondary text-books in physical geography, that a knowledge may be gained of the essential principles and of well-selected facts illustrating those principles; (2) individual laboratory work comprising at least forty exercises. From one-third to one-half of the candidate's class-room work should be devoted to laboratory exercises. In the autumn and spring, field trips should take the place of laboratory exercises. Properly attested reports of field and laboratory work must be presented at the time of examination.

This requirement is the same as that of the College Entrance Examination Board in Geography,

ASTRONOMY. *One unit.* The requirement in Astronomy demands class instruction in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied: *The Celestial Sphere*: designation of the directions of a heavenly body. *The Earth*: its axial rotation; time, latitude, longitude; its orbital revolution; precession; aberration, the seasons, equation of time, the calendar. *The Moon*: its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses. *The Sun*: its rotation, physical characteristics, light, and heat. *The Planets*: apparent and real motions, individual characteristics. *The Law of Gravitation*: its control of the solar system; the tides. *Comets and Meteors*: their nature and motions. *The Stars*: designation, classification by constellations, motions, distance, brightness, variables. *Stellar Systems*: clusters, nebulae; the stellar universe, cosmogony.

As no examination in Astronomy is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see pages 26, 27.

BIOLOGY. *One unit.* The course should be developed on the basis of laboratory work supplemented by careful study of a modern elementary text-book. A laboratory note-book should be submitted as a part of the examination.

Suggested materials for laboratory study: The animal forms mentioned in the zoölogy requirement and in addition — spirogyra, bacteria, yeast, mold, a moss, a fern, a pine, a monocotyledon, and three types of dicotyledons.

Suggested topics for study:

I. General plan of external structure of typical plants and animals.

II. General physiology of suggested types of plants and animals, involving the essentials of food getting, digestion, absorption, circulation, respiration, cell metabolism, secretion, excretion, reproduction, locomotion and nervous functions in animals, and in plants transpiration and photosynthesis.

III. Classification of animals and plants into their great divisions with further classification of some insects, classifications of vertebrates, and dicotyledons into their prominent orders.

IV. Some familiarity with the natural history (including adaptations, life history, geographical range, and inter-relations) of the common plants and animals obtainable where the course is given.

V. A knowledge of the relation of plants and animals to human welfare, *e.g.*, the economic importance of insects, birds, forests, and vegetation generally; the part played by animals and plants in the cause and transmission of disease; animal and plant food resources.

This requirement is the same as that of the College Entrance Examination Board in Biology.

A student presenting biology for entrance may not also present zoölogy or botany.

ZOÖLOGY. *One unit.* The course should be developed on the basis of laboratory work supplemented by careful study of a modern elementary text-book. A laboratory note-book should be submitted as a part of the examination.

Suggested material for laboratory study: a protozoan (*e.g.*, paramecium or ameba); a coelenterate (*e.g.*, hydra or sea anemone); two types of insects (*e.g.*, butterfly, grasshopper, beetle, bee); crayfish, or clam, or other mollusc; two vertebrates (*e.g.*, fish, frog, bird, or mammal).

Suggested topics for the study of animals:

I. General plan of external structure of all the forms and of the internal structure of a crayfish or annelid and of a vertebrate.

II. General physiology of above types involving the essentials of food getting, digestion, absorption, circulation, respiration, cell metabolism, secretion, excretion, locomotion, nervous functions, and reproduction.

III. Classification of animals into phyla and leading classes with the distinguishing characteristics of these groups. In insects and vertebrates the prominent orders should be known.

IV. Some familiarity with the natural history (including adaptations, life history, geographical range, and inter-relations) of the common animals obtainable where the course is given.

V. A knowledge of the relation of animals to human welfare. The economic importance of insects, birds, and other animals; the part played by animals in the cause and transmission of disease; animal food resources.

This requirement is the same as that of the College Entrance Examination Board in Zoölogy.

A student presenting zoölogy for entrance may not also present biology.

MECHANICAL DRAWING. *One unit.* The course, covering approximately 200 hours, should be so arranged that the student will be thoroughly drilled in the application of the fundamentals. It is not essential that all drawings be inked, and no drawing should be tinted or shaded. Emphasis should be placed on correct methods of making pencil drawings in which the application of fundamental principles is so stressed that the student will not be inclined to copy. A convenient size for drawings is approximately 11 × 15 inches.

At the beginning of the course the student should be taught to use the T-square, triangle, and various instruments correctly, emphasizing the necessity for accuracy, speed, neatness, and finish. Geometric constructions for pentagons, hexagons, and the common curves, such as the ellipse, parabola, hyperbola, and cycloids, commonly used in drafting are desired rather than useless geometric designs. The principles of "third angle projection" should form the main features of the course. Problems of simple objects and solids, to be drawn in specified positions, should be presented in the form of written description, isometric sketches, or models, and include a few examples of sectional and auxiliary views, simple developments, and intersections. The theory and principles governing the constructions for isometric drawings should be clearly understood. Special constructions for offsets, non-isometric lines, and curves should be included, and the student should be able to construct and use the "isometric scale," if required. In working drawings simple objects are to be drawn in at least three views with special reference to: conventional methods of representing sections; placing dimensions; standard form of single stroke Gothic freehand lettering; explanatory notes, finish, etc.; and a distinctive title. Only enough inking should be done to afford sufficient practice in using the ruling-pen and compasses. Tracing cloth should be used, tracing over a few of the final pencil drawings, preferably the working drawings.

This requirement is the same as that of the College Entrance Examination Board in Mechanical Drawing.

Directions to Candidates

All drawings made by the candidate must be certified by the teacher (or school principal) and sent to the Registrar of the University previous to the examination.

The candidate should print on each drawing, near the lower right-hand corner, *name, school, and date of completion.* Drawings must be fastened together, or placed in a single envelope or container, certificate attached, duly signed, and mailed flat.

The candidate must bring the following to the examination: a 6 H drawing pencil, eraser, pair of compasses, protractor, 45 degree and 30 × 60 degree triangles, and an accurate 12 inch scale divided into sixteenths of an inch.

ADMISSION TO ADVANCED STANDING

A candidate for advanced standing, unless coming from an approved institution of collegiate rank, will be examined in the studies required for entrance to Brown University (unless admitted by certificate) and in those already pursued by the class which he desires to enter.

A candidate who comes from an approved institution of collegiate rank may receive credit, without examination, for work done at that institution. He must present, or have had accepted elsewhere, the same entrance subjects as are required of students entering Brown University without advanced credit; and must take, or have taken, all the prescribed subjects in the course leading to the desired degree at Brown University. The Committee on Registration determines the amount of credit, on receipt of the following credentials, which should be sent to the Registrar: (1) a formal statement from the proper official of the institution previously attended, showing all preparatory subjects accepted for entrance (specifying whether by examination or certificate), and all the courses attended at college, with their catalogue numbers, and the standing attained by the student; (2) an official statement as to whether the student has completed the amount of work regularly required up to the time of withdrawal, or has done work in excess, or of less amount, or has incurred conditions or probation; (3) a marked catalogue of the institution, describing the subjects taken; (4) a letter of honorable dismissal from the institution last attended.

Every candidate for a bachelor's degree, admitted to advanced standing, must remain in residence at the University at least one year before receiving his degree, and must take in regular course the full amount of work ordinarily required during the academic year.

ADMISSION OF SPECIAL STUDENTS

Mature persons who desire to pursue special subjects and who have had the requisite training may enter the various courses of study without becoming candidates for a degree.

Applicants must present to the Registrar, before August 1 if possible, a certified and detailed statement of the nature and extent of their preparatory work, including testimonials of character and ability. In case a student has attended more than one institution, he must present credentials from each. Applicants must satisfy the Committee on Registration, by passing the entrance examinations or presenting certificates, that they are qualified to pursue the courses desired.

Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours a week unless a smaller assignment is allowed.

REGISTRATION AND ENROLMENT OF UNDERGRADUATES

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ALL candidates for admission to the Freshman class and all first year special students, whether or not they have entrance examinations to take, must report on the Thursday preceding the opening of the first semester (for 1924, September 18), for the required psychological tests. The first test will be held at 9.30 a.m. Students who have any entrance examinations to take in September must report in Manning Hall for the psychological tests; students who have no entrance examinations to take must report in Sayles Hall.

All candidates for admission to the Freshman class and all first year special students are required to meet their faculty advisers on the Friday and Saturday preceding the opening of the first semester (for 1924, September 19 and 20), for consultation in regard to their work at the University. They are also required to attend Orientation lectures on these days. Definite assignments will be made at the time of the psychological tests.

All new students, whether candidates for a degree or special students, must report at the Administration Building on the Monday or Tuesday preceding the opening of the first semester (for 1924, September 22 or 23), and fill out registration cards for the whole of the ensuing year. For failure to comply with this rule a fee of three dollars will be charged. All new students must present at or before the time of registration all credentials necessary for admission.

In May all undergraduates, whether candidates for a degree or special students, must obtain at the Registrar's office registration cards, which must be filled out with a list of the courses elected for the whole of the ensuing year and returned not later than June 1. For failure to comply with this rule a fee of three dollars will be charged. *All members of the Sophomore class must file with their registration cards a concentration card signed by the Committee on Educational Advice and Direction.* See Requirements for Concentration, pages 55, 56.

Changes in registration will be allowed only by the Committee on Registration. Requests for changes in September should be sent to the Registrar before September 7. Requests for changes for the second semester must be presented to the Registrar before the beginning of the examinations of the first semester, unless these requests are the result of failures, in which case they must be presented to the Registrar two days before the opening of the second semester. A fee of three dollars is charged for changes. A double fee is charged for any change made after enrolment.

All students must report at the Registrar's office for enrolment on one of the two days preceding the opening of each semester. A receipt from the Comptroller for the advance payment of twenty-five dollars must be presented. For late enrolment a fee of three dollars will be charged.

REQUIREMENTS FOR DEGREES

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BACHELOR OF ARTS

For Students who entered in 1920

English Composition and Rhetoric. Three hours for two semesters. Students wishing to be excused may apply for a proficiency test at the beginning of the year. Students who attain a grade of *A* in the first semester will be excused from further work in this subject.

English Literature. Three hours for one semester.

English Literature, or Biblical Literature, or Art, or Music. Three hours for one semester.

Ancient Languages (either Latin, or Greek, or both). Six hours for a year.

Modern Languages. Including that presented for admission, two years in one language must be completed. One year must be taken in college unless three units, two of which are in one language, are presented for admission.

History. Three hours for a year. Students presenting for admission Medieval and Modern European History, or English History, but not American History, must take American History. Other students must take European History.

Economics, Social Science, Political Science. A year-course in any one, or a semester course in any two.

Philosophy. Three hours for a year.

Mathematics, or Astronomy, or Physics, or Chemistry. Three hours for a year.

Biology, or Botany, or Geology. Three hours for a year. Students presenting equivalents may be excused by the Committee on Registration.

REQUIREMENTS ARRANGED BY YEARS

Freshman Year. Orientation Lectures; Physical Training; English; Ancient Languages; Mathematics, or Astronomy, or Physics, or Chemistry; Biology, or Botany, or Geology; one other required or elective course.

Sophomore Year. That portion of the requirement in English, Foreign Languages, History, and Science not completed in the Freshman year; other required and elective courses to make fifteen hours per week, Physical Training.

Junior Year. The required Philosophy, if not previously taken, and other required and elective courses to make fifteen hours per week.

Senior Year. All required courses not previously taken, and elective courses to make fifteen hours per week.

BACHELOR OF PHILOSOPHY

For Students who entered in 1920

English Composition and Rhetoric. Three hours for two semesters. Students wishing to be excused may apply for a proficiency test at the beginning of the year. Students who attain a grade of *B* in the first semester will be excused from further work in this subject.

English Literature. Three hours for one semester.

English Literature, or Biblical Literature, or Art, or Music. Three hours for one semester.

Foreign Languages. Including that presented for admission, four years in two languages other than English must be completed, two of which must be in one modern language. One year must be taken in college unless at least six years are presented for admission.

Classical Civilization (Greek 15, Latin 16). Three hours for a year.

History. Three hours for a year. Students presenting for admission Medieval and Modern European History, or English History, but not American History, must take American History. Other students must take European History.

Economics, Social Science, Political Science. Three hours for a year: a year-course in any one, or a semester course in any two.

Philosophy. Three hours for a year.

Mathematics. Three hours for a year. Students presenting by examination two half-units of Mathematics beyond the minimum amount required for admission may be excused from this requirement by the Committee on Registration.

Physics, or Chemistry, or Botany, or Geology, or Astronomy. Three hours for a year. This requirement does not apply to students who have presented Physics and Chemistry for admission.

Biology. Three hours for one semester. Students presenting equivalents may be excused from this requirement by the Committee on Registration.

Biology or Botany. Three hours for one semester. Students presenting equivalents may be excused from this requirement by the Committee on Registration. Students electing Botany in the other science group must take Biology.

REQUIREMENTS ARRANGED BY YEARS

Freshman Year. Orientation Lectures; Physical Training; English; Foreign Languages; Mathematics; Biology, or Biology and Botany; Physics, or Chemistry, or Botany, or Geology, or Astronomy. Students excused from a portion of this required work will substitute other required courses or electives. With

the consent of the Committee on Registration one required course may be postponed to the Sophomore year.

Sophomore Year. History; Classical Civilization; that portion of the required work in English, Foreign Languages, and Science not completed in the Freshman year; other required and elective courses to make fifteen hours per week, Physical Training.

Junior Year. The required Philosophy, unless previously taken, and other required and elective courses to make fifteen hours per week.

Senior Year. Required courses not previously taken, and elective courses to make fifteen hours per week.

BACHELOR OF ARTS

For Students who entered in 1921 or thereafter

English Composition and Rhetoric. Three hours for two semesters. Students wishing to be excused may apply for a proficiency test at the beginning of the year. Students who attain a grade of *A* in the first semester will be excused from further work in this subject.

English Literature. Three hours for one semester.

English Literature, or Biblical Literature, or Art, or Music. Three hours for one semester.

Ancient Languages. Including that presented for admission, five years of Latin or four years of Greek, or three years of Latin and two years of Greek, or four years of Latin and one year of Greek, provided the Greek is taken in college. In any case at least one year-course must be taken in college.

Modern Languages. Including that presented for admission, three years including two in one language. In any case one year-course must be taken in college.

Mathematics. Students presenting the minimum requirement of two units (one in Algebra and one in Geometry) must take two years of Mathematics or one year of Mathematics and one year of Argumentation. Students presenting three or more units (including two in Algebra and one in Geometry) must take one year of Mathematics or one year of Argumentation.

Science. (a) Three hours for a year in Biology, or Botany, or Geology. (b) In addition to the requirement in (a), students not presenting one unit in Chemistry or Physics must take three hours for a year in Chemistry, or Physics, or Biology, or Botany, or Geology.

History. Three hours for a year. Students presenting for admission Medieval and Modern European History, or English History, but not American History, must take American History. Other students must take European History.

Economics, Social Science, Political Science. A year-course in any one, or a semester course in any two.

*Philosophy.*¹ Three hours for a year.

REQUIREMENTS ARRANGED BY YEARS

Freshman Year. English; Ancient Languages; Modern Languages; Mathematics (unless Argumentation is substituted in the Sophomore year); Biology, or Botany, or Geology; and other required or elective courses to make fifteen hours per week. In addition, all Freshmen must take Orientation Lectures and Physical Training.

Sophomore Year. That portion of the requirement in Ancient Languages, Modern Languages, English, Science, and History not completed in the Freshman year; Argumentation (if substituted for Mathematics); other required and elective courses to make fifteen hours per week, Physical Training.

Junior Year. The required Philosophy, if not previously taken, and other required and elective courses to make fifteen hours per week.

Senior Year. All required courses not previously taken, and elective courses to make fifteen hours per week.

BACHELOR OF PHILOSOPHY

For Students who entered in 1921 or thereafter

Mathematics. Students presenting the minimum requirement of two units (one in Algebra and one in Geometry) must take two years of Mathematics. Students presenting three or more units (including two in Algebra and one in Geometry) must take one year of Mathematics.

All other requirements are the same as for students who entered in 1920.

REQUIREMENTS FOR CONCENTRATION FOR THE DEGREE OF BACHELOR OF ARTS OR BACHELOR OF PHILOSOPHY

For Students who entered in 1920 or thereafter

Before the end of the Sophomore year every student must confer with the Committee on Educational Advice and Direction and arrange a coördinated and progressive program of courses, taking into consideration his scholarly ambitions or his prospective career. This program must comprise at least four year-courses in the case of candidates for the degree of Bachelor of Arts, and five in the case of candidates for the degree of Bachelor of Philosophy; of these at least three and four respectively must be taken in the Junior and

Senior year. Not more than one elementary course can be counted in fulfillment of this requirement.

With the consent of the Committee changes in concentration may be made during the Junior year.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

FRESHMAN YEAR

Mathematics 17	Mathematics 18
Engineering 1	Engineering 2
Engineering 3	Mathematics 50
‡ English 1	‡ English 48
Chemistry 1, or	Chemistry 2, or
Approved substitute	Approved substitute

If Chemistry is presented for admission, a substitute approved by the Division of Engineering may be elected.

SOPHOMORE YEAR

Mathematics 19	Mathematics 20
Economics 1	§ Economics 2
Physics 1	Physics 2
Engineering 7	Engineering 8
‡ English 49	‡ English 2

SUMMER COURSE

During part of the vacation between the Sophomore and Junior years a course in either surveying (*Engineering 5*) or shop practice (*Engineering 6*) is required.

JUNIOR YEAR

Engineering 9	Engineering 10
Engineering 11	Engineering 12
Engineering 13	Engineering 14
Engineering 16	Engineering 15
Engineering 5a or 6a	Engineering 5b or 6b
Approved elective (3 hours)	Approved elective (3 hours)

‡ Students whose work in English 1 is satisfactory to the department may take English 2 in place of English 48 in the second semester of the Freshman year, and substitute some other course for English 49, 48 in the Sophomore year.

At least one of the electives in the Junior or Senior year counting for three hours through the year must be taken in some department not in the Division of Engineering.

§ By special permission of the Division of Engineering, Political Science 1 or Social Science 1 may be substituted.

SENIOR YEAR

Engineering 17	Engineering 18
Engineering 19	Engineering 20
‡Engineering electives (6 hours)	‡Engineering electives (6 hours)
Approved electives (6 hours)	Approved electives (6 hours)

REGULATIONS UNDER WHICH A STUDENT MAY TAKE
A FIRST DEGREE IN LESS THAN FOUR YEARS

A candidate for a first degree who has maintained a satisfactory standing in his studies may, with the consent of the Committee on Registration, take work in addition to the regular number of hours prescribed.

A student who at the beginning of his Senior year lacks less than thirty semester hours of completing his course may, with the consent of the Committee on Registration, distribute his work over the year.

A student who at the beginning of any semester lacks less than fifteen semester hours of completing his course may, with the approval of the Committee on Registration, be excused from taking more than the necessary number of hours.

A candidate for a first degree may, at the end of the semester in which his work is completed, be excused from further attendance at the University, and may receive his degree at the Commencement next following such semester.

For conditions under which graduate work may be pursued during the Senior year, see "Graduate Study."

CREDIT FOR SUMMER WORK. A candidate for a first degree may receive credit for work done at the summer school of an approved institution of collegiate rank, subject to the approval of the head of the corresponding department in Brown University; but no credit will be given for required courses except those designated by the Committee on Registration and the departments concerned. The credit given toward a degree at the institution in question will be given at Brown University, but the total credit for any one summer shall not exceed six semester hours, except as noted below. Applications must be filed at the Registrar's office before Commencement.

A candidate for a first degree who has an average grade of *B* in all courses to date may, with the consent of the head of a department, pursue studies (except required courses) in that department during any summer in which he does not attend a summer school, and may receive credit, provided that the work is done under the supervision of the department and that an examination is passed before the beginning of the next academic year. The amount of

‡ One of these electives must be chosen from the following: C. E. 27, 28; E. E. 53, 54; M. E. 77, 78 or 79, 80.

credit will be determined by the head of the department, but the total credit for one summer shall not exceed three semester hours, except as noted below. Applications must be filed at the Registrar's office before June 1.

Students who have no deficiency due to failure and who have an average grade of *B* in all courses to date may receive a maximum credit of nine semester hours for work at a summer school, or a maximum credit of six semester hours for work done under the supervision of a department. Such students will be allowed to continue or supplement work at a summer school by work done under the supervision of a department, so that a summer school credit of two semester hours may be extended in the same subject to three hours, two credits of two hours each may be extended in the same subjects to three hours each, or a credit of four hours in one subject may be extended in the same subject to six hours. In no other manner will credit be allowed both for work done at a summer school and for work done under the supervision of a department during the same summer.

ATTENDANCE, STANDING, AND EXAMINATIONS

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ATTENDANCE. Every student is required to attend every session of the classes in which he is registered, including gymnasium, and also the chapel service.

STANDING. At the close of each semester a report is sent to the parent or guardian of every student containing a record of his absences and of his standing in each of his studies.

There are four pass grades: *A*, *B*, *C*, *D*.

E is assigned to those who have failed; or to those whose work during the semester has been so unsatisfactory that they are not allowed an examination; or to those who, in a laboratory course, have not completed half the work.

O is assigned to those who have been absent one-half the time in a course, or to those whose absence from the examination is not excused by the Dean.

A student who receives the mark *E* or *O* in a required course must repeat the course; unless the Committee on Registration, in conference with the department concerned, allows the deficiency to be made up by work at a summer school. A student who receives the mark *E* or *O* in an elective course may substitute some other course, or may take an equivalent amount of summer work.

I is assigned to those whose work is incomplete, but satisfactory so far as done. All incomplete work must be made up before the middle of the following semester, otherwise the mark will be changed to *E*, unless an extension is granted by the Committee on Registration.

Abs. is assigned to those who have been absent from the examination unless *E* has been assigned on the basis of the work of the semester.

A student whose work is incomplete and who is absent from the examination is assigned the marks *I* and *Abs.*

GRADE REQUIREMENTS FOR DEGREES. No candidate for the degree of Bachelor of Arts or Bachelor of Philosophy will be allowed to graduate who has not attained a grade above *D* in at least 84 semester hours of college work.

No candidate for the degree of Bachelor of Science will be allowed to graduate who has not attained a grade above *D* in at least 72 semester hours.

In applying the above requirements to the Classes of 1924 and 1925 the following interpretation has been adopted:

1. Students who, at the end of the academic year 1921-22, had more than the due proportion of the minimum number of grades above *D* required under the

old rule may, if necessary, count their surplus toward the fulfilment of the new requirement for the remainder of their course.

2. Students who, at the end of the academic year 1921-22, had less than the due proportion of the minimum number of grades above *D* required under the old rule will be excused from the deficiency, but must secure during the rest of their course the due proportion of grades above *D* required under the new rule, and must in any case obtain a total for the four years of at least 60 semester hours above *D*.

EXAMINATIONS. All classes are examined at the close of each semester. A student is not admitted to the examination in a study in which he has received the mark *E* or *O* on the work of the semester.

Special examinations are given only to students who have received the mark *Abs.* and whose absences have been excused by the Dean, and to candidates for advanced standing; but candidates for the degree of Bachelor of Science who have failed in a first examination may, at the discretion of the department concerned, be allowed a second examination. Such students must present to the department evidence that the work of the course has been thoroughly reviewed.

A student is not admitted to a special examination except on authorization from the Registrar. If the examination is taken to remove the mark *Abs.* or *E*, the student must pay a fee of three dollars.

Special examinations upon the work of the first semester are given only during the following spring recess. Special examinations upon the work of the second semester are given only in the following September before the opening of the academic year, except that special examinations on the work of the second semester of the Senior year are given on the Saturday and Monday after the examination period in June.

Special examinations for advanced standing are, so far as possible, arranged at the times assigned for other special examinations.

Special examinations at other times are allowed only by consent of the Committee on Registration and Attendance.

Students desiring special examinations in the spring recess must make application to the Registrar not later than March 1. Students desiring special examinations in September must make application to the Registrar not later than August 15.

EXAMINATIONS TO REMOVE ENTRANCE CONDITIONS. Students who are admitted with one or more deficiencies in the required entrance English or Mathematics may take not more than twelve hours of regular college work in any semester if they are candidates for the degree of Bachelor of Arts or Bachelor of Philosophy, or more than thirteen hours if they are candidates for the degree of Bachelor of Science, until the entrance deficiency or deficiencies have been removed. Such students must arrange with the department

or departments concerned to make up the deficiency or deficiencies during the semester. In exceptional cases the Committee on Registration may allow students to carry the full assignment of regular work during the first semester and to make up one deficiency in the manner noted above.

Students who are permitted by the department concerned to make up a deficiency in entrance English or Mathematics, by successfully carrying an advanced college course in the same subject during the first or second semester, are exempt during that time from the application of the rule regarding short work.

No candidates for a degree will be allowed to register for their third year in college as long as they are deficient in entrance English or Mathematics.

Students who have entrance conditions in subjects other than the required English or Mathematics may remove these conditions by passing the regular mid-year entrance examinations, or the June examinations of the College Entrance Examination Board, or the regular entrance examinations in the following September. Applications for the mid-year examinations must be filed with the Registrar before January 15. No student who has failed in an entrance examination will be granted a second examination at any time other than September, except on presentation of a tutor's certificate and on payment of a fee of three dollars. No entrance examinations other than those appointed above will be held unless ordered by the Committee on Registration.

If such conditions are not removed before the beginning of the Sophomore year, they will be regarded as deficiencies in college work and the students required to take extra courses in the departments in which the deficiencies occur.

GRADUATE STUDY

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ADVANCED study in Brown University is open to :

(1) Students who have received the bachelor's degree (other than the degree of Bachelor of Education) from Brown University or from some other college whose requirements for the degree are substantially equivalent.

(2) Students in the Senior class in Brown University who have received an average mark of *B* throughout their course, and who require not more than twelve semester hours for the completion of their work. An undergraduate candidate for an advanced degree is not permitted to take more than twenty-one hours in a single semester.

Students may be enrolled as candidates for advanced degrees by vote of the Faculty on recommendation of the Dean of the Graduate Department. If not so enrolled, they are designated as registered, or as special graduate students.

The Graduate Council, consisting of five members including the Dean *ex-officio*, has the duty of approving the courses laid out for each candidate and of having general charge of matters relating to graduate study.

Candidates for advanced degrees must be present in person to receive the degree unless excused by the President.

REGISTRATION OF GRADUATE STUDENTS. Not later than the eighth day of the first semester, every candidate must file with the Dean of the Graduate Department, an application designating the courses he desires to take during the ensuing year, approved by the professor in charge of each course. If not a student or graduate of Brown University, he must also file his diploma or other evidence of holding the bachelor's degree, and a marked catalogue or detailed statement showing the courses pursued. Graduate students, wishing to attend certain courses, may be registered as special graduate students. On completion of these requirements the Dean will authorize the candidate to register in the courses to be taken. This authorization, and a receipt from the Comptroller for the advance payment on the bill for the semester, must be presented at the Registrar's office before any classes are attended. All graduate students must register at the Registrar's office within three days after the opening of the second semester, and present a receipt from the Comptroller for the advance payment. An authorization from the Dean will not be required for the second semester unless a change in courses is made. For late registration a fee of three dollars is charged.

REQUIREMENTS FOR DEGREES

MASTER OF ARTS. The candidate must hold (or, if an undergraduate student, be a candidate for) a bachelor's degree other than a degree given for technical work.

He must complete a year of study of not less than thirty semester hours. The work may be all in one subject, but not in more than three: a major subject and one or two minor subjects approved by the professor in charge of the major subject and by the Graduate Council. In addition a report is required in the major subject and a final oral examination may be required by the professor in charge. The degree is granted only on the written recommendation of the professor in charge.

Graduate Work Done in Other Institutions. Graduate work done in residence at another institution and not used in fulfilment of the requirements for an advanced degree elsewhere may be offered in partial fulfilment of the requirements, provided it is approved by the Dean of the Graduate Department and the professors in charge of the student's work; but the equivalent of at least eighteen semester hours must be done in residence at Brown University.

Undergraduate Credit. A graduate of Brown University who has to his credit undergraduate courses in which he has received a grade of *A* or *B*, which have not been counted toward the bachelor's degree, may offer such courses in partial fulfilment of the requirements for the degree of Master of Arts, provided they conform to the requirements for the degree.

Graduate Students in Undergraduate Courses. When a graduate student pursues courses regularly open to undergraduates, only those courses in which the grade of *A* or *B* has been received will be counted toward the degree.

MASTER OF SCIENCE. The candidate must have completed, or plan to complete, in addition to his work for the degree, sixty semester hours in mathematics and the sciences.

He must complete a year of graduate study of not less than thirty semester hours in mathematics, engineering, physics, chemistry, astronomy, the biological sciences, psychology, or the geological sciences. With the approval of the Graduate Council, one or two courses in industrial management, statistics, or related subjects are admissible. The work may be all in one subject, but not in more than three: a major subject and one or two minor subjects chosen with the approval of the professor in charge of the major subject and of the Graduate Council. In addition a report of an investigation or a thesis is required in the major subject and a final oral examination may be required by the professor in charge. The thesis must be deposited with the Dean not later than May 1. As a substitute for the report an advanced six-hour laboratory course, extending through the year, may be accepted by the professor in charge of the

major subject. The degree is granted only on the written recommendation of the professor in charge.

The other provisions are the same as for the degree of Master of Arts.

MASTER OF BUSINESS ADMINISTRATION.‡ The candidate must have completed thirty-six semester hours in starred courses listed under the Department of Economics; or their equivalent, in the case of students who have received their bachelor's degree from another institution. The grade of *D* will not be accepted in fulfilment of this requirement, and a grade of *C* will not be accepted in courses aggregating more than twenty-one semester hours.

The candidate must complete one full year of graduate work of at least thirty semester hours, including all starred courses referred to above not previously taken, a thesis on a subject approved by the Department of Economics, and such additional subjects as the department may require.

The candidate must also complete at least twelve weeks of work in a business establishment approved by the department, preferably during the summer following the attainment of the bachelor's degree.

DOCTOR OF PHILOSOPHY. The candidate must choose a major and a minor subject. His course as a whole must be arranged by the professor in charge of the major subject and must be approved by the Graduate Council. The courses in the minor subject must be approved by the professor in charge of that subject. The full statement of the course, including the subject of the thesis and the languages in which the student is to be examined, must be filed with the Dean not later than October 15 of the last year of candidacy.

The candidate must possess a reading knowledge of at least two foreign languages (in addition to any language which may constitute his major subject) sufficient for the purposes of his special studies, such languages to be designated by the professor in charge of the major subject, and approved by the Graduate Council. He will be examined in these languages before December 1 in the last year of his candidacy by a committee consisting of the Dean, representatives of the departments in charge of the major and minor subjects, and of the language departments concerned.

The candidate must possess a comprehensive knowledge of his major and minor subjects, attested in writing by the professors in charge of those subjects at the end of his first year of candidacy. He must pass a public examination conducted by the Dean, the officers of professorial rank in the departments concerned, and such other members of the Faculty as that body may appoint. This examination will be held not later than June 1 of the last year of candidacy. Application for examination must be made to the Dean by April 1.

The candidate must present a thesis on a topic related to his major subject, embodying the results of original research, giving evidence of high scholarship,

‡ A special circular, *Courses in Economics and Business Administration*, may be obtained from the Registrar.

and constituting a contribution to knowledge. The thesis must have the written approval of the professor in charge of the major subject, and must be presented to the Dean before April 15, in typewritten copy, on standard thesis paper, in unbound form or in print. It will be accepted only when approved by the Faculty and when either the thesis as a whole, or a summary of the essential facts and conclusions which it embodies, has been printed.‡

The requirements being qualitative rather than quantitative, no definite statement of the time required for obtaining the degree can be made, but in no case will the degree be granted for less than three years of graduate work.

Work Done in Other Institutions. Graduate work done in residence at another institution, prior to enrolment in Brown University, and not used in fulfilment of the requirements for the degree of Doctor of Philosophy elsewhere, may be offered in partial fulfilment of the requirements, provided it is approved by the Graduate Council and the professors in charge of the major and minor subjects, but in no case will the degree be granted to a candidate who has not completed a continuous year of work (other than work on his thesis) at Brown University.

DOCTOR OF PUBLIC HEALTH. The purpose of the course leading to this degree is to fit students for administrative and research work in connection with the public health service. The general requirements are the same as for the degree of Doctor of Philosophy. The major subject must be in the Department of Biology.

‡ In lieu of the thesis or summary in printed form, a summary with a cash deposit, sufficient to cover the expense of printing, may be accepted. If the thesis, or summary, is printed by the author within a year after receiving his degree, and copies are furnished to the University, the deposit will be returned. Otherwise the summary will be printed by the University.

THE SCHOOL OF EDUCATION

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THE School of Education is not a separate institution, but is the formal organization of the courses of study offered by the University and its other resources to promote study on the part of teachers and of students preparing for teaching or other educational work, and to offer better opportunities for study to teachers now in service and to others interested in educational work.

There are two classes of students: graduate and undergraduate.

Graduate students: All candidates for advanced degrees in as far as they are doing work in Education, especially if they are majoring in Education; also graduate students who are not registered for a degree in as far as they are pursuing courses in Education.

Undergraduate students: 1. All undergraduates in the University in as far as they are pursuing courses in Education, including those who are definitely preparing for teaching or other educational work; 2 (Type A). All candidates for the degree of Bachelor of Education in residence; 3 (Type B). All candidates for the degree of Bachelor of Education who are teachers in service.

ADMISSION OF GRADUATE STUDENTS. Persons who are eligible for admission to the Graduate Department of the University may be admitted to the School of Education as graduate students. Such students must first be registered in the Graduate Department of the University.

ADMISSION OF CANDIDATES FOR THE DEGREE OF BACHELOR OF EDUCATION. The following classes of students are admitted to the School of Education as candidates for the degree of Bachelor of Education:

1. Those who have completed the required and elective work of the first two years of the Bachelor of Arts or Bachelor of Philosophy course at Brown University or other institutions of equal standing.

2 (Type A). Specially recommended graduates of approved normal schools, provided that such graduates fulfill the entrance requirements of the University and present their school records.

3 (Type B). Graduates of approved normal schools or persons of equivalent academic preparation who present satisfactory evidence of at least three years of successful experience as teachers.

REQUIREMENTS FOR THE DEGREE. Candidates of type A are required to complete a course of fifteen hours of class-room work a week, for each of two years, as follows:

FIRST YEAR.

English 1, 2. Three year-hours, unless excused on evidence of proficiency in English composition.

Physical or Natural Science, or Mathematics. Three year-hours.

Two subjects from the following group: *Ancient or Modern Literature; History; Economics, and Social Science or Political Science.* Six year-hours.

One free elective, or two free electives if excused from English 1, 2. Three year-hours.

SECOND YEAR.

Education. Three year-hours.

Philosophy. Three year-hours.

The subject in the first-year group (*Literature, History, Economics*) not taken in the first year. Three year-hours.

One elective in continuation of a subject taken in the first year. Three year-hours.

One free elective. Three year-hours.

Candidates of type B are required to complete sixty semester hours (equivalent to two full years of academic work) with an average grade not lower than C.

Credit may be received for free electives to the maximum of twenty-four semester hours, and a minimum credit of twelve semester hours must be obtained in some single subject or group of closely related subjects. A minimum of four semester hours must be elected from each of the following:

English Composition (unless excused); Physical Science or Mathematics; Natural Science; History; Philosophy; Education; Literature (Ancient or Modern); Social or Political Science, or Economics, separately or in combination.

A second course of not less than four semester hours in one of the above subjects, or group of subjects, must be taken.

A minimum of thirty semester hours must be taken in work offered in regular courses, but credit for twelve semester hours of this total may be obtained by approved courses taken in other institutions, including courses taken in summer sessions.

The remaining work may be selected from courses offered in University Extension, provided these courses are recommended by the Council of the School of Education and approved for this specific purpose by the Committee on the Curriculum, and provided that before taking such courses the students are duly enrolled in the School of Education.

ADMISSION OF SPECIAL STUDENTS. Mature persons who desire to pursue special subjects, and who have had the requisite preliminary training, are allowed to enter the School of Education without becoming candidates for a degree.

REGISTRATION, ENROLMENT, AND FEES. Before enrolment all students must present to the Director of the School of Education all necessary credentials. Their course of study must be approved in advance by the Director. The regulations governing registration, enrolment, and fees are the same as for students in the other departments of the University (see page 51).

Persons who take the degree of Bachelor of Education in Brown University may obtain the degree of Bachelor of Arts or Bachelor of Philosophy by additional work.

The University offers gratuitously the privileges of the class-rooms in the School of Education to all teachers of the public and private schools of Providence and Rhode Island who are graduates of the Normal School and who have been employed in such public and private schools for at least three years.

COURSES OF INSTRUCTION

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WHEN semester courses are grouped in one paragraph (e.g. Biology 1, 2), they constitute a year-course and neither semester may be elected independently unless specific statement to the contrary is made.

Roman numerals (I, II) indicate semesters; the arabic numeral in parentheses (3) following the semester number indicates the credit hours for the course in each semester.

When the time of meeting is not announced, it will be arranged by the instructor at the beginning of the semester.

ART

Assistant Professor SHAPLEY.†

1, 2. *General History of Art*

A comprehensive introductory course similar in method to Art 3, 4, with which it alternates, but dealing with different material. Professor SHAPLEY.

I, II; (3). Elective for Undergraduates. Either semester may be elected independently. M., W., F., at 10.25.

[3, 4. *General History of Art*]

I, II; (3). Elective for Undergraduates. Either semester may be elected independently. Not offered in 1923-24. To be offered in 1924-25.

15, 16. *Elementary Practice of Art*

Training of hand and eye by study in charcoal and pencil of casts and still-life objects.

I, II; (1).§ Two hours of drawing. Elective for Undergraduates. Given at the Rhode Island School of Design. M. at 2.

17, 18. *Intermediate Practice of Art*

I, II; (3).§ Six hours of drawing, or four hours of drawing and one hour lecture on Historic Ornament. Elective for students who have credit for or are

† On leave of absence during the second semester 1923-24.

§ A final mark covering the year's work as a whole is given at the end of the course, the first semester's mark being only temporary.

taking 1, 2, and who have credit for 15, 16. Given at the Rhode Island School of Design. *M., Tu., W., at 2.*

19, 20. *Advanced Practice of Art*

I, II; (2).‡ Four hours of work adapted to the needs of advanced students. Prerequisite: Art 17, 18. Given at the Rhode Island School of Design.

21, 22. *Art Seminary*

Research work arranged to meet the needs of individual students. *Professor SHAPLEY.*

I, II; (3-12). Elective for Graduates and approved Undergraduates.

23, 24. *Journal Club*

A study of contemporary investigation and criticism based on current periodicals.

I, II; (3). Elective for Graduates and approved Undergraduates.

BIBLICAL LITERATURE AND HISTORY§

Professor FOWLER; Instructor: Dr. BRATCHER.

LITERATURE AND HISTORY IN ENGLISH

[15, 16. *Old Testament Literature and History*]

I, II; (3). Elective for Sophomores, Juniors, Seniors, and Graduates. Either semester may be elected independently. Not offered in 1923-24.

17, 18. *New Testament Literature and History*

Includes Jewish literature and history from the conquest of Alexander to the destruction of Jerusalem, and the entire New Testament studied in its historical setting. With 15, 16 gives a comprehensive view of the development of Biblical literature and history. First semester: New Testament times and outline of the life and teaching of Jesus. Second semester: the Apostolic Age. *Professor FOWLER.*

I, II; (3). Elective for Sophomores, Juniors, Seniors, and Graduates. Either semester may be elected independently. *Tu., Th., Sa., at 11.25.*

‡ A final mark covering the year's work as a whole is given at the end of the course, the first semester's mark being only temporary.

§ For conditions under which students may receive credit in the Newton Theological Institution for work done in this department, see page 145.

21, 22. *Biblical Seminary*

Subject for 1923-24: A critical, literary and historical examination of the books ascribed to the Apostle John. *Professor FOWLER.*

I, II; (3). *W. at 3.*

28. *Social Teachings of the Prophets and Jesus*

Historical study of the principles underlying the social teachings of the Hebrew prophets and sages, and their interpretation in modern terms; Jesus' conception of the ideal social order, and the means by which it is to be established. *Dr. BRATCHER.*

II; (3). Elective for Sophomores, Juniors, and Seniors. *Tu., Th., Sa., at 9.25.*

29, 30. *History of Religion*

An outline study of the principal religions of the world, with special emphasis on the beginnings, implications, and significance of Christianity. *Professor SELLEN of the Department of Philosophy.*

I, II; (3). Elective for Juniors, Seniors, and Graduates. Either semester may be elected independently. *Tu., Th., Sa., at 10.25.*

31, 32. *The English Bible*

A general survey of the content and literary form. *Dr. BRATCHER.*

I, II; (3). Elective for Undergraduates. Either semester may be elected independently. *Tu., Th., Sa., at 10.25.*

LANGUAGES

1, 2. *Elementary Hebrew*

Grammar; exercises in writing Hebrew; translation of parts of Genesis. *Professor SELLEN of the Department of Philosophy.*

I, II; (3). Elective for Juniors, Seniors, and Graduates.

3, 4. *Historical Hebrew*

Readings from Genesis, Samuel, and Kings with special attention to the acquisition of a vocabulary; review of the elements of Hebrew grammar and study of syntax. *Professor FOWLER.*

I, II; (3). Elective for students who have credit for 1, 2.

5, 6. *Hebrew Literature*

Critical translation and study of the characteristics and development

of some one of the great divisions of Hebrew literature — Psalm, Wisdom, Legal, or Prophetic. *Professor FOWLER.*

I, II; (3). Elective for students who have credit for 3, 4.

7. *Textual Criticism of the Old Testament*

The principles and method of textual criticism, in connection with the study of one of the shorter prophetic books. *Professor FOWLER.*

I; (3). Offered if applied for by students who have credit for 3, 4.

9, 10. *Elementary Arabic*

Grammar; exercises in writing Arabic; translation of prose selections. *Professor FOWLER.*

I, II; (3). Elective for Seniors and Graduates.

11, 12. *Gospels and Epistles*

First semester: the Gospel and Epistles of John, the Gospel of Mark. Second semester: the Gospels of Matthew and Luke. *Professor FOWLER.*

I, II; (3). Elective for Juniors, Seniors, and Graduates.

[13, 14. *Acts and Pauline Epistles*]

I, II; (3). Elective for Juniors, Seniors, and Graduates. Either semester may be elected independently. Not offered in 1923-24.

23, 24. *Alexandrian Jewish Literature*

I, II; (3). Offered if applied for by students who have an adequate knowledge of Greek.

25. *Elementary Syriac*

I, II; (3). Elective for Graduates.

BIOLOGY

Professors MEAD, GORHAM, and WALTER; *Associate Professor* MITCHELL; *Assistant Professor* WILSON; *Instructors:* Mr. WAGGENER and Dr. STUART.

1, 2. *General Biology*

The structure of animals; elementary vital phenomena; the functions of organs; the development of organisms; the principles upon which modern hygiene and sanitation are based; lectures on personal hy-

giene and care of the body; the causes, methods of transmission, and prevention of communicable diseases; discussion of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. The course will introduce the student to the use of the microscope, laboratory technic, and scientific methods of observation and experiment. *Professor GORHAM.*

I, II; (3). Six hours of attendance. 1 is required in the first semester, Freshman or Sophomore year, of candidates for the degree of Bachelor of Philosophy. 2 or Botany 20 is required in the second semester. Elective for Undergraduates. Laboratory fee, \$7 a semester. Lectures, *Division 1: M., Th., at 3; Division 2: Tu., Th., at 12.25.*

3, 4. *Comparative Anatomy of Vertebrates*

The structure and significance of the various organs of vertebrates with particular reference to man. Intended not only for general students, but also for those who are particularly interested in zoölogy and for those who expect to study medicine. Students are permitted to attend clinics and autopsies at the Rhode Island Hospital. Laboratory work and lectures. *Professor WALTER.*

I, II; (3). Six hours of attendance. Elective for Sophomores, Juniors, and Seniors who have credit for 1, 2. Laboratory fee, \$7 a semester. *M., W., F., at 8.*

5, 6. *Anatomy of the Nervous System*

Main features of the gross anatomy and histology of brain, cord, and sense organs; cranial nerves and their functional components; more important pathways in brain and cord. Practice in dissection. Designed as foundation for medical or psychological work. *Professors MEAD and WILSON.*

I, II; (3). Six hours of attendance. Elective for Juniors and Seniors who have credit for 1, 2. Laboratory fee, \$7 a semester.

7, 8. *Embryology and Histology*

The origin of the individual and the developmental process from the egg to the adult; the material basis of heredity; the composition of the body and its organs in terms of their vital units, the cells. Practice in micro-technic. Adapted to the needs of general students and of those intending to study medicine. *Professor MEAD.*

I, II; (3). Six hours of attendance. Elective for Juniors and Seniors who have credit for 1, 2. By written consent of the department this course may be elected for six hours. Laboratory fee, \$7 a semester. *Tu., Th., Sa., at 8.*

[9, 10. *Advanced Histology and Pathology*]

I, II; (3). Six hours of attendance. Elective for Juniors, Seniors, and Graduates who have credit for 1, 2, and 7, 8. Laboratory fee, \$7 a semester. Not offered in 1923-24.

11, 12. *General Physiology*

General vital processes in plants and animals; the more special phenomena in higher animals, with their bearing on human physiology. Designed not only as an introduction to further work, but also as a general view of physiology. Lectures and laboratory work. *Professor MITCHELL.*

I, II; (3). Six hours of attendance. Prerequisite: Biology 1, 2 and Chemistry 1, 2. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. Laboratory fee, \$7 a semester. *M., W., F., at 11.25.*

13, 14. *Chemical Physiology*

The chemistry of proteins, carbohydrates, and fats; the physiology of the digestive system, with the study of secretions and of artificial salivary, gastric, and pancreatic digestions; examination of blood, bile, and urine; the analysis of foods, particularly milk. Designed for those who are interested in physiology either from a medical or a general standpoint, and for those who are specializing in chemistry and desire a knowledge of vital chemical processes. *Professor MITCHELL.*

I, II; (3). Six hours of attendance. Elective for Juniors and Seniors who have credit for or are taking Organic Chemistry 7, 8, or who have credit for Chemistry 54 or Biology 11, 12. Laboratory fee, \$7 a semester. *Tu., Th., Sa., at 10.25.*

16. *Bacteriology*

A general discussion of bacteria in all their relations, with special attention in the laboratory to the methods of studying bacteria, including the isolation and determination of unknown species. Lectures and laboratory work. *Professor GORHAM.*

II; (3). Six hours of attendance. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. Laboratory fee, \$7. *M., W., F., at 10.25.*

17, 18. *Advanced Bacteriology*

Practical work in the qualitative and quantitative biological examination of water, milk, air, soil, and sewage; study of the more common

pathogenic organisms, with the determination of their pathogenic properties, and the methods of bacteriological diagnosis of disease. Laboratory work and seminary. *Professor GORHAM.*

I, II; (3). Six hours of attendance. Elective for Juniors, Seniors, and Graduates who have credit for 16. Laboratory fee, \$7 a semester. *M., Th., at 4.30.*

21. *Genetics*

A course in the fundamental principles of heredity with some application to man. Lectures and assigned reading. *Professor WALTER.*

I; (3). Prerequisite: at least two years of biology. *Tu., Th., Sa., at 8.*

22. *Evolution*

The history of biology, principles of classification, geographical distribution, heredity, natural selection, variation, Mendelism, and the relationship of man to the lower animals. Lectures and assigned reading. *Professor MEAD.*

II; (3). Elective for Juniors and Seniors. *Tu., Th., Sa., at 11.25.*

23, 24. *Experimental Zoölogy*

A consideration of animal behavior, regeneration, experimental evolution, and related topics. Designed particularly as a background for research and for the teaching of biology. Lectures, laboratory, and field trips. *Professor WILSON.*

I, II; (3). Six hours of attendance. Elective for students who have credit for or are taking 7, 8. Laboratory fee, \$7 a semester. *Tu., Th., Sa., at 9.25.*

27, 28. *Advanced Bacteriology*

A continuation of 17, 18, with special reference to serological diagnosis and immunity. Laboratory work and seminary. *Professor GORHAM.*

I, II; (3). Six hours of attendance. Elective for approved Seniors and Graduates who have credit for 16 and 17, 18. Laboratory fee, \$7 a semester.

33, 34. *Biological Research*

Research work arranged to meet the needs of individual students. *Professors MEAD, WALTER, and WILSON.*

I, II; (3-12). Elective for Graduates.

35, 36. *Advanced Physiology*

General physiology of the cell; fundamental chemical and physico-chemical reactions of life; physiology of the muscular, nervous, and

circulating systems; nutrition, chemistry of food, metabolism, dietetics. Laboratory work and seminary. *Professor MITCHELL.*

I, II; (3). Five hours of attendance. Elective for Seniors and Graduates who have sufficient knowledge of chemistry and physiology. Laboratory fee, \$7 a semester. *Tu., 2 to 4; F., 2 to 5.*

37, 38. *Bacteriological Research*

Research work arranged to meet the needs of individual students. *Professor GORHAM.*

I, II; (3-12). Elective for Graduates who have credit for 16 and 17, 18; 27, 28.

39, 40. *Biological Theories and Problems*

Seminary course. *Professor MEAD.*

I, II; (1-3). Elective for Graduates.

41, 42. *Zoölogical Seminary*

Reading and discussion of German zoölogical literature selected with reference to the needs of individual students. *Professor WALTER.*

I, II; (1-3). Elective for Graduates.

43, 44. *Physiological Research*

Research work arranged to meet the needs of individual students. *Professor MITCHELL.*

I, II; (3-12). Elective for Graduates.

BOTANY

Assistant Professor SNELL; Instructors: Messrs. HOWARD and LAMB; Demonstrator and Curator of the Herbarium: Mr. COLLINS.

20. *Elementary Botany*

Designed to give a general knowledge of plant life. Takes up the structure and functions of the higher plants and the general features of plant biology. Emphasizes the relation of plants to human welfare and considers the uses of plants and plant products in the industries. Lectures and laboratory. *Professor SNELL.*

II; (3). Four hours of attendance. Botany 20 or Biology 2 is required in the Freshman or Sophomore year of candidates for the degree of Bachelor of Philosophy. Elective for others. Laboratory fee, \$2.50. Lectures: *Tu., Th., at 12.25.*

31, 32. *Industrial Botany*

Replaces Botany 1, 2. This course disregards the old-fashioned botany entirely and takes up the industrial and economic aspects of plant life. The aim is to give the student an idea of the uses of plants and plant products, and an appreciation of their importance, in the industries and in relation to civilization in general, and at the same time to present the important features of plant structure and physiology, and plant biology. The course considers some of the more interesting phases of agriculture and food problems; American forestry, the lumber situation, and forest products; the cellulose industries; textile fibres and the textile industry; and other plant products. The course is designed particularly for those who expect to take no more botany and is intended to be liberal in scope. *Professor SNELL.*

I, II; (3). Four hours of attendance. Elective for Undergraduates, and may be elected by students who have taken 1, 2. Laboratory fee, \$2.50 a semester. *M., W., at 8.*

[3, 4. *Physiological Anatomy*]

I, II; (3). Six hours of attendance. Prerequisite: Botany 1, 2, or its equivalent. By written consent of the department this course may be elected for six hours. Laboratory fee, \$7 a semester for each three hours of credit. Not offered for the present.

5, 6. *Morphology*

This course is intended to follow Botany 31, 32 or 20 for those who wish to take up scientific botany. A comparative study of forms of plant life, with emphasis upon phylogenetic relationships; gross and minute anatomy, especially of the seed plants; micro-technic. *Professor SNELL.*

I, II; (3). Six hours of attendance. Prerequisite: Botany 1, 2 or 31, 32 or 20. Laboratory fee, \$7 a semester.

9. *Wood*

A general discussion of wood, designed particularly for students who have had no botany, but also open to those who have. May be followed by Botany 10 in the second semester. Considers such topics as the nature and structure of different important woods; the properties of wood with reference to its industrial uses; identification of some of the more important woods; durability and decay of wood; seasoning and preservation of wood, etc. *Professor SNELL.*

I; (1, 2, or 3 hours of credit as desired, with one hour of lecture and two hours of laboratory for each additional credit). Elective for Undergraduates. Laboratory fee, \$2.50.

10. *Trees*

A study of the tree in its economic and esthetic aspects; the structure and functions of trees; tree products; kinds and distribution of trees in the United States; identification of trees in and about Providence. Lectures and field trips. *Professor SNELL.*

II; (1, 2, or 3 hours of credit as desired, with one hour of lecture and two hours of laboratory or field work for each additional credit). May be taken to follow Botany 9 or not, as desired; Botany 9 is not a prerequisite. Elective for Undergraduates. No previous knowledge of botany required. Laboratory fee, \$2.50.

[11, 12. *Plant Physiology*]

I, II; (3). Six hours of attendance. Prerequisite: Botany 1, 2 or 20, or any courses in Biology. Laboratory fee, \$7 a semester. Not offered in 1923-24.

[13, 14. *Plant Pathology*]

I, II; (3). Six hours of attendance. Prerequisite: Botany 5, 6 or Biology 16. Laboratory fee, \$7 a semester. Not offered in 1923-24.

7, 8. *Botanical Research*

Special work, research, the preparation of a thesis, etc. *Professor SNELL.*

I, II. Credits and hours to be determined individually. Elective for Graduates and approved Seniors. Laboratory fee apportioned to work.

[15, 16. *Field Botany*]

I, II; (1). One afternoon of attendance. May be elected for more than one year. Elective for all students. No previous knowledge of botany required. Not offered in 1923-24.

[21, 22. *Botanical Seminary*]

I, II; (2). May be elected for more than one year. Prerequisite: Botany 1, 2. Not offered in 1923-24.

CHEMISTRY†

Associate Professors CHAMBERS and ARNOLD; *Assistant Professors* DAVISON and STRACHAN; *Instructors*: Drs. BIGELOW and SIMONS, Mr. PRAY; *Assistant*: Mr. REYNOLDS; *Lecturer*: Dr. KRAUS.

1, 2. *Descriptive Chemistry*§

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; written exercises; laboratory work. *Professor* DAVISON, *Dr.* SIMONS, *Mr.* PRAY.

I, II; (3). Elective for Undergraduates who have not presented chemistry for admission. Laboratory fee, \$7 a semester. Laboratory hours to be arranged with the instructor. Lectures, *Tu., Th., Sa., at 10.25.*

51, 52. *Inorganic Chemistry*§

Professor DAVISON, *Dr.* SIMONS, *Mr.* PRAY.

I, II; (3). Elective for Undergraduates who presented chemistry for admission. Laboratory fee, \$7 a semester. Laboratory hours to be arranged with the instructor. Lectures, *Tu., Th., Sa., at 12.25.*

3, 4. *Qualitative and Quantitative Analysis*

Properties of the metallic elements; their separation from certain of their compounds. The principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicals. Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative apparatus is constructed. Laboratory work; recitations in qualitative analysis and in chemical theory; exercises in stoichiometry. *Professor* ARNOLD and *Mr.* REYNOLDS.

I, II; (3). Six hours of attendance. Prerequisite: Chemistry 1, 2 or 51, 52. Laboratory fee, \$11 a semester. *Division 1: Tu. at 11.25; Division 2: F. at 10.25.*

‡ Courses 1, 2, or 51, 52; 3, 4, 7, 8, and 15, 16 are designed to give a thorough general introduction to chemistry to serve as a foundation for teaching chemistry, or for advanced study in medicine, bacteriology, botany, and chemistry. Course 9 is offered for those who intend to follow sanitary work. Students intending to specialize in chemistry should have a reading knowledge of German and French.

§ Credit for the entrance requirement in chemistry admits only to 51, 52, which may not be taken without previous preparation.

53. *Qualitative Analysis* ‡

Similar to Chemistry 3, 4 in scope, but designed primarily to complete the requirements in inorganic chemistry for pre-medical students. *Professor ARNOLD and Mr. REYNOLDS.*

I; (6). Twelve hours of attendance. Elective for students who do not intend to specialize in chemistry. Laboratory fee, \$20. *M., W., F., at 11.25.*

54. *Organic Chemistry* ‡

Designed primarily to meet the requirement in organic chemistry for pre-medical students. *Dr. BIGELOW.*

II; (6). Nine hours of attendance. Prerequisite: Chemistry 53. Laboratory fee, \$11. *M., W., F., at 11.25.*

5, 6. *Quantitative Analysis, Advanced Course*

Acidimetry and alkalimetry; analysis of pure chemical compounds, minerals, alloys, limestone, iron, and steel; examination of agricultural products; testing of chemicals used in textile establishments, etc. *Professor ARNOLD and Mr. REYNOLDS.*

I, II; (6). Twelve hours of attendance. Elective for Juniors, Seniors, and Graduates who have credit for 3, 4. Laboratory fee, \$22 a semester. *M. at 10.25.*

7, 8. *Organic Chemistry*

Preparation and analysis of representative organic compounds. Lectures, recitations, and laboratory work. *Professor CHAMBERS and Dr. BIGELOW.*

I, II; (6). Nine hours of attendance. Elective for Juniors, Seniors, and Graduates who have credit for 3, 4. Laboratory fee, \$11 a semester. *M., W., F., at 9.25.*

9. *Sanitary Chemistry*

Qualitative and quantitative examination of air, water, food and food adulterants, flour, bread, milk, butter, etc. Also the analysis of sewage and effluents. Lectures, recitations, and laboratory work. *Professor ARNOLD.*

I; (3). Prerequisite: Chemistry 1-4 and 7, 8. Laboratory fee, \$11.

[12. *Organic Dyes*]

II; (3). Six hours of attendance. Elective for approved students. Laboratory fee, \$11. Not offered in 1923-24.

‡ Courses 53 and 54 will not be accepted as prerequisites for more advanced courses. Attention is called to the fact that 54 does not meet the admission requirements to all medical schools.

13, 14. *Industrial Chemistry*

Lectures, trips, and problems. *Professor* ARNOLD.

I, II; (3). Elective for students who have taken or are taking Chemistry 7, 8 or 15, 16. Traveling expenses for this course will average approximately \$12 per semester. *Wednesday afternoons and usually one evening in each week.*

15, 16. *Physical Chemistry*

General introductory survey of physical chemistry, gas laws, change of state, chemical equilibrium, structure of matter, phase rule, electrochemistry, thermochemistry, spectroscopy, and their application to science and industry. Lectures, conferences, and laboratory work. *Professor* STRACHAN.

I, II; (3). Six hours of attendance. Elective for Juniors, Seniors, and Graduates who have credit for 3, 4, Mathematics 61, 62 or 17, 18. Laboratory fee, \$7 a semester. *Tu., Th., Sa., at 9.25.*

17, 18. *Physical Chemistry, Advanced Course*

Lectures and seminar on advanced topics. Thermodynamics, kinetics, radiation theory, atomic structure, and similar subjects are treated with reference to their bearing on chemistry. The content of the course varies from year to year and at the option of the students. *Professor* STRACHAN.

I, II; (3). Elective for approved Seniors and Graduates who have credit for Chemistry 15, 16, Physics 1, 2 or 27, 28. Must also be preceded or accompanied by Chemistry 7, 8 and by Mathematics 65, 66 and 19, 20.

27, 28. *Physico-chemical Measurements*

Theory and practice of physico-chemical measurements. The discussion includes the principles, construction, and operation of instruments, errors, and criticism of methods and data. Laboratory work and conferences. *Professor* STRACHAN.

I, II; (3). Elective for approved Seniors and Graduates who have credit for Chemistry 15, 16, Physics 1, 2 or 27, 28. Laboratory fee, \$7 a semester.

19, 20. *Organic Chemistry, Advanced Course*

Lectures, recitations, and seminars. *Professor* CHAMBERS.

I, II; (3). Elective for approved Seniors and Graduates. Reading knowledge of German required. *M., 2 to 4; F., 3 to 4.*

21, 22. *Organic Preparations, Advanced Course*

Professor CHAMBERS and Dr. BIGELOW.

I, II; (6). Elective for approved Juniors, Seniors, and Graduates who have credit for Chemistry 7, 8. Reading knowledge of German required. Laboratory fee, \$22 a semester.

23, 24. *Inorganic Preparations*

Professor DAVISON and Dr. SIMONS.

I, II; (3). Elective for Juniors, Seniors, and Graduates. Laboratory fee, \$11 a semester.

25, 26. *Research Work in Chemistry*

Professors CHAMBERS, ARNOLD, and STRACHAN.

I, II; (3 or more). Elective for Graduates. Reading knowledge of German required. Laboratory fee, \$11 a semester for each three hours of credit. *Hours to be arranged.*

31, 32. *Industrial Analysis*

Analysis of commercial products. Lectures, recitations, and laboratory work. *Professor ARNOLD.*

I, II; (3). Prerequisite: Chemistry 1-8 and 15, 16. Laboratory fee, \$11 a semester.

ECONOMICS ‡

Professor GARDNER; Assistant Professors ADAMS, BADGER, and BERRIDGE; Instructors: Messrs. BANCROFT, BURTON, and SHOUP; Assistants: Messrs. YOUNG, BISHOP, and RUSSELL; Lecturer: Mr. HARRIS.

1.* *Elementary Economics* ‡

The historical origin, structure, and working of the existing economic system. *Professor GARDNER and other members of the Department.*

I & II; (3). Elective for Sophomores and Juniors. Students electing this course must designate the semester in which it is to be taken. First semester, *M., W., F., at 8, 9.25, 10.25, 11.25; Tu., Th., Sa., at 8, 9.25, 10.25, 11.25, 12.25.* Second semester, *M., W., F., at 12.25.*

2.* *Elementary Economics* ‡

The principles which determine the prices of goods, the movement of goods in international trade, and the distribution of the national income. *Professor GARDNER and other members of the Department.*

II; (3). Elective for Sophomores and Juniors. Required in Sophomore or Junior year of students who intend to take advanced work in Economics. *M., W., F., at 8, 9.25, 10.25, 11.25; Tu., Th., Sa., at 8, 9.25, 10.25, 11.25, 12.25.*

The following courses, unless otherwise specified, are open only to those students who have credit for Economics 1, 2.

3, 4.* *Industrial Management* ‡

The management of industrial enterprises. Location and arrangement of factory buildings, organization of the working force, routing

‡ A special circular, *Courses in Economics and Business Administration*, containing a detailed description of courses, may be obtained from the Registrar.

Candidates for the degree of Bachelor of Arts or Bachelor of Philosophy are required to take in the Sophomore or Junior year a year-course in the departments of Economics and Social and Political Science. This requirement may be met by Economics 1, 2; or Social Science 1, 2; or Political Science 1, 2; or a semester course in each of any two of these subjects.

Candidates for the degree of Bachelor of Science are required to take in the Sophomore year Economics 1, and either Political Science 1 or Social Science 1.

Students planning to become candidates for the degree of Master of Business Administration are required to take all *starred* courses offered by the Department of Economics, and also Political Science 5, Business Law. At least thirty-six hours of such courses must be taken before graduation. No course in which the grade of *D* has been received and not more than twenty-one semester hours of work in which the grade of *C* has been received will be accepted in fulfilment of this requirement.

Attention is called to related courses in the following departments: Geology 6, Principles of Economic Geography; History 3, 4, Economic History of Europe; History 25, 26, Economic History of the United States; Mathematics 53, Mathematical Theory of Investment; Mathematics 54, Mathematical Theory of Statistics; Political Science 5, Business Law; Political Science 11, Corporation Law.

and scheduling of work, stores and purchasing, determination of standards of operation, cost finding, wage systems, securing coöperation, and control of production. Lectures, assigned reading, inspection trips, and reports. *Professor HALL of the Division of Engineering.* I, II; (3). Elective for Seniors and Graduates. *Tu., Th., Sa., at 10.25.*

5, 6.**Money and Banking* ‡

Principles of money; recent monetary history, particularly of the United States; systems of leading industrial nations; present problems. Principles of banking; recent banking history, particularly of the United States; the Federal Reserve system; systems of the leading industrial nations; present problems. *Professor GARDNER.*

I, II; (3). *Tu., Th., Sa., at 11.25.*

7.**Labor Problems* ‡

An analysis of modern production methods and their effects upon labor; wages; hours; child and woman labor; industrial accidents and diseases; unemployment; immigration; unions; industrial disputes, labor legislation; social insurance; personnel management. *Mr. BURTON.*

I; (3). *M., W., F., at 11.25.*

8. *The Labor Movement and Radicalism*

Rise and development of unionism; theory and practice of collective bargaining; laws and court decisions affecting labor organizations; labor in politics. Socialism and allied movements advocating radical economic reform, including Marxian, Fabian, and guild socialism, syndicalism, and Russian bolshevism. *Mr. BURTON.*

II; (3). Prerequisite: Economics 7. *M., W., F., at 11.25.*

10. *Personnel Management*

Material and psychological factors of the working environment; labor sources; selection methods; training; promotion; transfer; discharge; wage rates; hours and shifts; safety; labor turnover; absenteeism; shop committees, unions, and industrial councils; pensions, insurance, profit-sharing; organization and administration of an industrial relations department. *Mr. BURTON.*

II; (3). Prerequisite: Economics 3, 7, and 8. Elective for Graduates, and for Seniors by permission. *Th., 2 to 4, and one hour to be arranged.*

‡ See note on page 83.

11, 12. *Public Finance and Financial History*

General principles of public finance; revenues and expenditures of leading industrial nations; public enterprises in their financial aspects; principal forms of taxation and their effects; public debts. Special attention is given to the financial history of the United States from the adoption of the Constitution to the present day. *Professor GARDNER.*

I, II; (3). *Tu., Th., Sa., at 12.25.*

13. * *Statistics* †

Principles of quantitative analysis as applied to economic, commercial, and social facts; the possibilities and limitations of statistical methods; some of the leading results of statistical inquiry in economics; the criticism and interpretation of statistical findings. *Professor BERRIDGE.*

I; (3). *Tu., Th., 2 to 4.*

14. *Foreign Trade and Transportation*

Study of world markets; policies and methods used in foreign trade; technique of exporting and importing; development of the ocean carrier; trade routes; ocean transportation of freight, passengers, and mail; government influence on ocean commerce. *Professor BADGER.*

I; (3). *M., W., F., at 9.25.*

15. *Transportation in the United States*

General history of the development of means of transportation; economic characteristics of railways; different kinds of transportation service; theory of rates and rate-making; public regulation and control; recent operation of railways by the government; transportation act of 1920; automotive and water transportation and its relation to the present railway problem. *Professor —.*

II; (3). *M., W., F., at 9.25.*

16. * *Corporations, Corporation Finance, and Combinations* †

The corporation as a form of business organization: kinds of securities; capitalization; promotion; underwriting; stock market; financial management; and reorganization. The different kinds of combinations from structural and functional standpoints; the factors which

† Students planning to become candidates for the degree of Master of Business Administration are required to take this course, either before graduation with others totaling 36 hours, or during the year of graduate study.

caused their formation; public control and regulations. *Professor BADGER.*

I; (3). It is recommended that 17, 18 precede this course. *M., W., F., at 10.25.*

17, 18. * *Accounting, Elementary Course* ‡

An introductory course in general principles to acquaint the student with the functions of accounting and its importance in modern industry, to familiarize him with accounting terminology, and to ground him in the fundamental principles upon which accounting practice and procedure are built. Analysis of the accounting problem; recording of business transactions; classification of accounts; trial balance, inventory and the closing process; preparation of statements; determination of net revenue; accounting for proprietorship; surplus and reserves; the interest problem; organization and construction; and the problem of valuation. *Professor ADAMS.*

I & II; (3). Lecture, *W. at 8. Division 1: M., F., at 8; Division 2: M., F., at 10.25; Division 3: Tu., Th., at 10.25.*

19, 20. *Accounting, Advanced Course*

An advanced course in principles and problems in which emphasis is given to the use of accounting data as an agency of administration and control. Valuation and appraisal; causes, measurement, and accounting treatment of depreciation; construction, analysis, and interpretation of financial statements; intangible assets; branch accounts; consignment and installment sales; accounting for dissolution, realization, and liquidation. *Professor ADAMS.*

I; (3). Prerequisite: Economics 17, 18. *M., W., F., at 11.25.*

21. *Cost Accounting*

Adapting accounting structure developed in earlier courses to segregation and allocation of costs. Cost accounting for production control; nature of information needed for managerial purposes; general principles involved in construction of a cost system; units of cost application; methods of burden distribution; cost records and operating reports; analysis and interpretation of cost data. *Professor ADAMS.*

II; (3). Prerequisite: Economics 17, 18. *Tu., Th., Sa., at 9.25.*

‡ Students planning to become candidates for the degree of Master of Business Administration are required to take this course, either before graduation with others totaling 36 hours, or during the year of graduate study.

[22. *Auditing*]

II; (3). Prerequisite: Economics 17, 18, and 19. Not offered in 1923-24.

24. *Investments*

Classification of investment securities; business risks and safety factors in relation to general types of securities; analysis of corporation reports from an investor's standpoint; bond and stock yields; work of the bond houses; relation of general business factors to speculative and investment commitments. *Professor BADGER.*

II; (3). Elective for students who have credit for or are taking 17, 18. *M., W., F., at 10.25.*

25, 26. **Marketing* ‡

First semester: physical and commercial machinery employed in the distribution of goods; marketing functions; marketing of the principal raw materials, including a study of auctions, exchanges, and co-operative associations; government aid. Second semester: marketing of manufactured goods; selling forces; direct and indirect distribution; price policies; coöperation; regulation of unfair trade practices; marketing system of the future. *Mr. SHOUP.*

I, II; (3). 25 may be elected independently, but is a prerequisite for 26. *Tu., Th., Sa., at 9.25.*

28. *Sales Management and Advertising*

The work of the selling department of a typical manufacturing plant; the relation of the sales department to the other departments in the business; the sales manager's problem of selecting and training salesmen, of assigning territory, and of establishing sales quotas and methods of salesmen's remuneration; methods of sales analysis in reference to standardization of products, determining selling points, and establishing brand and trademark policies. *Professor BADGER.*

II; (3). Elective for students who have credit for or are taking 25, 26. *M., W., F., at 12.25.*

29. *Problems in Industrial Management*

A continuation of Economics 3, 4, devoted largely to the study of special problems in industrial management. *Professor HALL of the Division of Engineering.*

‡ Students planning to become candidates for the degree of Master of Business Administration are required to take this course, either before graduation with others totaling 36 hours, or during the year of graduate study.

I; (3). Elective for Seniors and Graduates who have credit for 3, 4. *Hours to be arranged.*

30. *Business Research*

Statistical methods applied to practical problems of business; plotting production and cost records; reports covering special investigations; sources of statistical data, both governmental and private, and current business services; emphasis on sales and advertising work, market analysis, price policies, sales quotas, and advertising policies. Students in this course will be expected to coöperate with the Brown Bureau of Business Research. *Professors BADGER and BERRIDGE.*

II; (3). Prerequisite: Economics 13. *Hours to be arranged.*

31.**Natural Resources and World Markets*†

A study of the food products and raw materials which go to satisfy the wants of man: their relative importance; conditions, methods, and limits of production; their different kinds, varied uses, and relation to manufacturing; their dispersion in world trade. Organic and inorganic products will be considered; also the question of power resources. Map study will be essential and the class work will be supplemented with individual investigations. *Mr. BANCROFT.*

II; (3). May be elected at the same time as 1, 2. *M., W., F., at 11.25.*

32.**Business Organization*†

An introductory course. The main departments of a business enterprise; production, marketing, financing, personnel management, accounting, their functions and the problems which they present and their relations to one another; the different types of organization and the principles which underlie them. Emphasis is laid on the general principles governing the organization as a whole, a detailed discussion of the separate departments being left to subsequent courses. *Mr. BANCROFT.*

I; (3). May be elected at the same time as 1, 2. *M., W., F., at 11.25, and other hours if necessary.*

34. *Business Cycles and Forecasting*

A study of the business cycle in its several phases of boom, crisis, depression, etc.; relation of the business cycle to prices, profits, pro-

† Students planning to become candidates for the degree of Master of Business Administration are required to take this course, either before graduation with others totaling 36 hours, or during the year of graduate study.

duction, employment, wages, trade, transport, speculation, investment, finance, and banking; the possibility of forecasting, mitigating, or controlling business cycles. *Professor BERRIDGE.*

II; (3). Prerequisite: Economics 13. *Tu., Th., 2 to 4.*

36. *Practical Banking and Foreign Exchange*

The organization of the individual bank, its various departments, their functions, the operations involved, and the documents used in facilitating trade and the financing of business. Special emphasis is laid upon the operations involved in the financing of foreign trade. *Mr. SHOUP.*

II; (3). Elective for Seniors and Graduates who have credit for Economics 5, 6. *Hours to be arranged.*

38. *Insurance*

An examination of those business risks which are insurable, especially fire, theft, marine, use and occupancy, casualty, liability, firm or partnership; the economic theory underlying insurance; types of policy contracts; theory of rate determination; practices employed in buying and selling insurance. *Professor BERRIDGE.*

II; (3). *Tu., Th., Sa., at 10.25.*

EDUCATION

Professor JACOBS; Assistant Professor EKSTROM; Instructor: Dr. MACPHAIL; Lecturer: Dr. ALLEN.

2. *Principles of Education*

The meaning and scope of education; its function as a social institution; a comprehensive view of the problems of education as they appear to-day and an evaluation of the solutions offered. *Dr. MACPHAIL.*

I; (3). Elective for Juniors, Seniors, and Graduates. *M., W., F., at 12.25.*

1. *History of Education*

A study of the historic foundations of modern education, elementary, secondary, and higher; the relation between education and other phases of historical development; present problems in the light of past experience. *Dr. MACPHAIL.*

II; (3). Elective for Juniors, Seniors, and Graduates. *M., W., F., at 12.25.*

3. *Educational Psychology*

The fundamentals of psychology applied to the problems of teaching and learning; man's native endowment; laws of learning; the learning curve; individual differences; mental tests; experiments. *Professor EKSTROM.*

I; (3). Elective for Juniors, Seniors, and Graduates. *M., W., F., at 11.25.*

4. *Methods of Teaching*

Organized observation of teaching; practice in lesson planning; how to judge and use a text-book; the art of questioning; teaching how to study, how to think, how to acquire skill, how to acquire capacity for enjoyment, how to retain what is learned; class management and methods; measuring results; qualities which make the successful teacher. *Professor EKSTROM.*

II; (3). Elective for Juniors, Seniors, and Graduates. *M., W., F., at 11.25.*

5, 6. *Secondary Education*

The development of the American high school; administration; supervision; reorganization of the course of study; relations to lower schools and to colleges; newer methods of teaching; typical secondary studies; English, Modern Languages, Latin; History and Civics; Science, Mathematics; the manual arts; vocational studies; social life and athletics; psychological tests and measurement of high school subjects; fitting the school to the needs of the individual pupil. *Professor EKSTROM.*

I, II; (3). Two hours of attendance. Elective for Graduates, and for approved Seniors and experienced teachers. *W., 4.15 to 6.*

7, 8. *Problems in Practical Teaching, Secondary Schools*

Practice teaching in the high schools of Providence and of neighboring cities and towns. Observation, reports, and conferences. Designed for those who wish to become instructors in colleges, teachers or principals in secondary schools, or superintendents of schools. The course is given with the assistance of Supervising Teachers. *Dr. MACPHAIL.*

I, II; (3). Elective for Graduates who have credit for elementary courses in Education and are taking 5, 6 and 15, 16. *Sa. at 9.30, and at other hours to be arranged.*

11, 12. *Psychology of Learning*

A course in educational psychology designed for those who have some

knowledge of general or educational psychology and for experienced teachers. Covers native equipment and acquired tendencies; the learning process as the basis for methods of teaching; motivation of school subjects; the study of differing capacities and aptitudes. *Professor EKSTROM.*

I, II; (3). Two hours of attendance. Elective for Graduates, and for approved Seniors and experienced teachers. *F.*, 4.15 to 6.

13, 14. *Tests and Measurements*

The nature, derivation, and practical uses of mental tests, and of tests in the various school subjects. Actual giving and scoring of tests. Analysis of results. Tabular, graphic, and statistical methods. This course is adapted to both elementary and high school teachers. *Dr. MACPHAIL.*

I, II; (3). Elective for Graduates, experienced teachers, and administrative officers. *Th.*, 4.15 to 6.

15, 16. *Seminary in Education*

Studies in current educational problems. The seminary is conducted in two parts in successive hours. Part A: reviews of the latest books upon education and related subjects, and studies of special problems assigned to individual students for investigation and experiments. Part B: a more intensive study of certain problems of current interest. For 1923-24 the subjects are: First semester: Problems in Secondary Education. Second semester: Recent Educational Theory. As subjects are not repeated, the course may be elected for two or more years. *Professor JACOBS.*

I, II; (3). Two hours of attendance. Required of student-teachers. Elective for Graduates, for approved Seniors, and for approved experienced teachers. *Sa.*, 10.45 to 12.30.

21. *Administration of Education, National and State; Rhode Island Education*

A study of education as an institution of society and the state; Rhode Island as a type; a survey of all educational activities as they exist at the present time, private, parochial, and public; their origins in social movements; their mode of administration, particularly the administration of public education as embodied in the laws of the state and nation. The course covers the state requirement in "Rhode Island Education." *Professor JACOBS.*

I; (3). Two hours of attendance. Elective for Graduates, for approved Seniors, and for approved experienced teachers and administrative officers. *M.*, 4.15 to 6.

22. *Administration of Education, Local School Control*

Organization and function of boards of education; the superintendent of schools. Types of schools and their organization; types of grading. The teaching force: training, appointment, promotion, salaries, pensions. The pupil: attendance, promotion, retardation, elimination. The course of study. The measurement of educational results: by marks, by comparisons, by standards and scales. The cost of education: sources of revenue, apportionment of funds. *Professor JACOBS.*

II; (3). Two hours of attendance. Elective for Graduates, for approved Seniors, and for approved experienced teachers and administrative officers. *M.*, 4.15 to 6.

24. *The Junior High School*

The place of the junior high school in the American school system; exploration courses; provisions for individual difference; educational guidance; curricula and courses of study; junior high school methods. *Professor EKSTROM.*

II; (3). Two hours of attendance. Elective for Graduates, and for approved Seniors and experienced teachers. *Sa.*, 9 to 10.40.

17, 18. *Administration of Education, Research Course*

The principles determining the conduct of educational surveys are studied, and the results of notable surveys analyzed and evaluated. Each student studies an administrative problem adapted to his interests. These studies are reported to the class from time to time for discussion and criticism. *Professor JACOBS.*

I, II; (3). *W.*, 4 to 6, or at a time arranged as convenient for the class and the instructor.

19, 20. *Experimental Education, Research Course*

Designed for those engaged in investigation of major problems in educational psychology. *Dr. MACPHAIL.*

I, II; (3). *Attendance by appointment.*

25, 26. *Seminary in Personnel Research, Secondary Schools*

The course deals with the *interpretation* of accurate objective measurements of intelligence, special abilities, and actual achievements

both in school subjects and outside activities, and with the *application* of this knowledge to the scientific classification of students, the determination of methods and courses of study, and the analysis of failures. *Dr. ALLEN.*

I, II; (1). One hour of attendance. Elective for Graduates, and for experienced teachers and administrative officers. *M., 4.30 to 5.30.*

27, 28. *Seminary in Personnel Research, Elementary Schools*

The course deals with the *interpretation* of accurate objective measurements of intelligence, special abilities, and actual achievements in school subjects; and with the *application* of this knowledge to the scientific classification and grading of students, to the determination of proper rates and methods of advancement, and to the educational guidance of children whose needs are not adequately met by the regular courses. *Dr. ALLEN.*

I, II; (3). Two hours of attendance. Elective for Graduates, and for experienced teachers and administrative officers. *Tu., 4.15 to 6.*

ENGINEERING

Professors HILL and KENERSON; Associate Professors WATSON and HALL; Assistant Professors BERARD, TOMPKINS, and BOHL; Instructors: Messrs. FAUNCE, BLISS, PUTNAM, DAY, and BLEAKNEY; Lecturer: Mr. WHEELER; Assistants: Messrs. CHASE and LATHAM.

1. *Elements of Engineering, Surveying*

Theory and practice of plane surveying: use of the tape, compass level, and transit. *Professor HILL, Messrs. DAY, CHASE, and LATHAM.*

I; (3). Six hours of attendance. Lectures, recitations, field work, and drafting. Elective for students who are taking or have taken trigonometry. Laboratory fee, \$2. Recitations: *Division a: Tu., Th., at 9.25; Division b: Tu., Th., at 9.25; Division c: W., Sa., at 9.25; Division d: W., Sa., at 9.25.* Field Work: *Division 1: M., 8 to 11; Division 2: F., 8 to 11; Division 3: M., 2 to 5; Division 4: F., 2 to 5.*

2. *Elements of Engineering, Mechanics*

Statics, including resolution and composition of forces, centre of gravity, friction, kinetics through rectilinear motion and rotation; work, power, and energy. *Professors HILL and BERARD; Messrs. BLISS and DAY.*

II; (3). Five hours of attendance. Lectures, recitations, drafting, and laboratory work. Elective for students who have credit for trigonometry. *Divisions a and b: M., W., F., at 9.25; Divisions c, d, and e: Tu., Th., Sa., at 9.25; all divisions: M., W., at 8.*

3. *Engineering Drawing*

Use of drafting instruments, lettering, tracing, third quadrant projection, detailing and dimensioning of machine parts. *Professor BERARD, Messrs. BLISS, DAY, and BLEAKNEY.*

I; (3). Six hours of drawing and one hour of recitation. Drafting-room work and assigned reading. Elective for Undergraduates. *Division 1: M., 8 to 11.15, Th., 2 to 5; Division 2: F., 8 to 11.15, Tu., 3 to 6.*

5, 5 a, 5 b. *Surveying*

A continuation of 1. Use of the tape, level, transit, stadia, and plane table; triangulation, topography, and railroad curves. *Professor BOHL and Mr. DAY.*

I, II; (3 for ten days during the summer and one hour a week during the year). Lectures, recitations, field work, and drafting. Prerequisite: Engineering 1. Laboratory fee, \$2.

6, 6 a, 6 b. *Mechanical Technology*

Shop work and inspection trips. *Professor BERARD and Mr. BLISS.*

I, II; (3 for ten days during the summer and one hour a week during the year).

7, 8. *Applied Mechanics*

A continuation of 2. Completion of statics; moment of inertia; curvilinear motion; combined rotation and translation; impulse and momentum. Strength of materials, including tension, compression, shearing, torsion, and flexure; theory of beams. *Professors HALL and BERARD, Mr. BLISS.*

I, II; (3). Elective for students who have credit for 2 and who have credit for or are taking calculus. *Tu., Th., Sa., at 11.25.*

9, 10. *Theory of Structures*

The fundamental course in civil engineering required of all engineering students. Underlying principles in structural design as applied to steel frame buildings and bridges, reinforced concrete in its simpler forms, masonry and timber. Interpretation of drawings.

While the work is primarily theoretical, endeavor is made to emphasize practice and its relation to theory for both substructure and superstructure. *Professor BOHL and Mr. DAY.*

I, II; (3). Prerequisite: Engineering 7, 8. *Tu., Th., at 8; Th., 2 to 4.*

11, 12. *Elementary Electrical Engineering*

The fundamental course in electrical engineering required of all engineering students. Principles of electricity and magnetism as applied to dynamo-electric machinery. Methods of generating and utilizing direct and alternating currents. Characteristics of generators and motors. *Professors WATSON and TOMPKINS, Mr. PUTNAM.*

I, II; (3). Two hours of recitation and lectures, and two hours of laboratory practice. Prerequisite: Physics 1, 2 and Mathematics 6. Laboratory fee, \$4 a semester. *Tu., Th., Sa., at 9.25.*

13, 14. *Heat and Power*

The fundamental course in mechanical engineering required of all engineering students; application of the principles of gases and vapors to steam, gas, and other heat engines, air compressors, refrigerating apparatus, etc.; the energy of fuel and its utilization for development of power; combination of units into the power plant. *Professor KENERSON, Messrs. FAUNCE and BLEAKNEY.*

I, II; (3). Lectures, recitations, and laboratory work. Elective for Juniors and Seniors. Laboratory fee, \$4 a semester. *M., W., F., at 9.25.*

15. *Materials of Engineering*

Study of the properties of the various materials used in engineering, such as cast iron, steel, bronzes, wood, cement, concrete, brick, and stone. *Professor KENERSON, Messrs. FAUNCE and BLISS.*

II; (3). Lectures, recitations, and laboratory work. Elective for Juniors and Seniors. Laboratory fee, \$3. *M., W., F., at 8.*

16. *Hydraulics*

Hydrostatics; nature and use of instruments, flow through orifices, over weirs, through tubes, through pipes, in conduits; flow of rivers, dynamics of water; theoretical consideration of water wheels, and pumping machinery. *Professor BOHL, Messrs. FAUNCE and DAY.*

I; (3). Lectures, recitations, and laboratory work. Prerequisite: Engineering 7. *M., W., F., at 8.*

17. *Engineering Economics*

Principles of accounting. *Professor ADAMS and Mr. HARRIS of the Department of Economics.*

I; (3). Required of all candidates for the degree of Sc.B. in Engineering. *Tu., Th., Sa., at 11.25.*

18. *Engineering Economics*

Contracts, specifications, patents, rate making, etc. *Professors KENERSON and HALL, Mr. WHEELER, and Special Lecturers.*

II; (3). Not elective. *Tu., Th., Sa., at 11.25.*

19, 20. *Report of Special Investigations*

Professors KENERSON, HILL, and WATSON.

I, II; (1). Required of all Seniors in Engineering. *Sa. at 8.*

A. CIVIL ENGINEERING

27, 28. *Advanced Structures*

An extension of Engineering 9, 10 for those who desire more complete knowledge of the principles governing the design and construction of foundations, buildings, bridges, dams, arches, etc. Problems, lectures, investigations, reports, and recitations. *Professor BOHL.*

I, II; (3). Elective for Seniors who have credit for or are taking Engineering 9, 10. *Tu., Th., Sa., at 9.25.*

29, 30. *Structural Design*

Theory applied to design in steel, masonry, and reinforced concrete. Individual illustrative problems assigned, typical for the various forms of construction. Drawings prepared and the results discussed. *Professor BOHL.*

I, II; (3). Six hours of drafting. Elective for students who are taking Civil Engineering 27, 28. *M., Th., 2 to 5, or by special arrangement.*

31, 32. *Highway Engineering*

Economics, construction, and design of roads and pavements. Methods of testing road materials. Systems of administration and maintenance. Inspection trips to visit the various types of city and state highways and bridges under construction, also manufacturing plants for materials, etc. *Professor BOHL and Mr. DAY.*

I, II; (3). Prerequisite: Engineering 5, 7, 8. Laboratory fee, \$4 a semester. *W., F., at 11.25; Tu., 2 to 5.*

33, 34. *Hydraulic and Sanitary Engineering*

Water supply and sewerage from a sanitary and an engineering standpoint. The first semester is devoted mainly to the chemical, biological, and meteorologic aspects of the subject, and the second semester to engineering construction and design. Inspection trips. *Professor HILL.*

I, II; (3). Prerequisite: Engineering 10 and 16. *W., F., at 10.25; and laboratory.*

35, 36. *Railroad Engineering*

Theory, location, construction, and economics of railroad engineering. *Professor HILL.*

I, II; (3). Lectures, recitations, field work, and drafting. Prerequisite: Engineering 5, 7, 8. *W., F., at 11.25. Field work to be arranged.*

B. ELECTRICAL ENGINEERING

51. *Telegraph and Telephone Engineering*

Descriptive course in wire telegraph and telephone apparatus and systems, including laboratory practice in assembling and operating illustrative apparatus. *Professors WATSON and TOMPKINS.*

I; (3). Two hours of recitation and two hours of laboratory work or trips of inspection. Elective for students who have credit for or are taking 11. Laboratory fee, \$2. *M., W., F., at 10.25.*

52. *Direct Current Machine Design*

Calculation and design of generators, motors, and auxiliary apparatus, accompanied with assignments of reading in the history and development of dynamo-electric machines. *Professor TOMPKINS.*

II; (3). Six hours of attendance. Prerequisite: Engineering 11. *M., W., F., at 10.25.*

53. *Theory of Alternating Currents*

A mathematical and graphical treatment of circuits containing resistance, inductance, and capacity. The measurement of power and power factor in alternating current circuits. Principles of alternating current machinery. *Professors WATSON and TOMPKINS, Mr. PUTNAM.*

I; (3). Two hours of recitation and two hours of laboratory work. Prerequisite: Engineering 12 and Mathematics 20. Laboratory fee, \$4. *M., W., F., at 11.25.*

54. Alternating Current Apparatus and Systems

Methods of generating and utilizing alternating currents; characteristics of generators, motors, converters, and transformers. *Professors WATSON and TOMPKINS, Mr. PUTNAM.*

II; (3). Two hours of recitation and two hours of laboratory work. Prerequisite: Engineering 12. Laboratory fee, \$4. *M., W., F., at 11.25.*

56. Alternating Current Machine Design

Calculation and design of generators, motors, transformers, and auxiliary apparatus. *Professor TOMPKINS.*

II; (3). Six hours of attendance. Prerequisite: Engineering 12. *M., W., F., at 9.25.*

58. Electric Traction and Transmission Engineering

Electric railway apparatus, central and substation equipments for general service; high tension transmission lines and low tension networks. Construction, operation, and related problems. *Professor WATSON.*

II; (2). Prerequisite: Engineering 11. *M., W., at 9.25.*

60. Commercial Metering and Measurements

Practice in the methods of calibrating, connecting, and using various electrical instruments of both the indicating and recording types. Methods of locating faults in cables and aerial lines. *Professor TOMPKINS.*

II; (2). One hour of lecture or recitation, assignments of reading to count for one hour, and one hour of laboratory practice. Laboratory fee, \$2.

[63. Electric Power Plant Engineering]

I; (2). Prerequisite: Engineering 12. Not offered in 1923-24.

65, 66. Seminary in Electrical Engineering

Reading and discussion of current technical literature. *Professor WATSON.*

I, II; (1). Prerequisite: Engineering 12. *Hours to be arranged.*

C. MECHANICAL ENGINEERING

75, 76. *Mechanism and Machine Design*

Velocity analysis, linkages, intermittent motion, cams, gear tooth curves, gear trains, joints and connections, journals, bearings, power transmission, machine frames, etc. Lectures, recitations, problems, and drafting-room work. *Professor HALL and Mr. BLISS.*

I, II; (3). Six hours of attendance. Prerequisite: Engineering 7, 8. *M., W., F., at 10.25; Tu., 2 to 5.*

77. *Internal Combustion Engines*

Application of the principles of thermodynamics and mechanics to the design of internal combustion engines; special emphasis placed on governing and balancing of moving parts. Lectures, problems, laboratory and drafting-room work. *Professor HALL.*

I; (3). Six hours of attendance. Prerequisite: Engineering 13, 14 and 75, 76. *Tu., Th., Sa., at 9.25; Tu., 2 to 5.*

78. *Advanced Machine Design*

Application of the principles of the fundamental courses to advanced problems in design, such as centrifugal machinery, etc. Lectures, problems, and drafting-room work. *Professor HALL.*

II; (3). Six hours of attendance. Prerequisite: Engineering 75, 76. *Tu., Th., Sa., at 9.25; Tu., 2 to 5.*

79, 80. *Advanced Heat and Power*

Study of boilers, engines, turbines, condensers, pumps, etc., together with the proper combination of these units to make an efficient power plant. Lectures, problems, laboratory exercises, and inspection trips. *Professor KENERSON and Mr. FAUNCE.*

I, II; (3). Prerequisite: Engineering 13, 14. *M., W., F., at 9.25.*

81. *Mechanical Engineering Practice*

Heating and ventilation, refrigeration, fire prevention, safety engineering, and illumination. Lectures, conferences, and laboratory exercises. *Professor KENERSON, Messrs. FAUNCE and BLISS.*

I; (3). Prerequisite: Engineering 13, 14. *M., Th., 2 to 4.*

82. *Experimental Engineering*

Special problems in the mechanical engineering laboratory; empha-

sis placed on the form of reports. *Professor* KENERSON, *Messrs.* FAUNCE and BLISS.

II; (3). Six hours of attendance. Prerequisite: Engineering 13, 14. Laboratory fee apportioned to work. *Hours to be arranged.*

84. *Industrial Management*

Discussion of the various principles of industrial management as applied to shops and factories. Lectures, reports, and inspection trips. *Professor* HALL.

II; (3). *Tu., Th., Sa., at 10.25.*

ENGLISH

Professors BRONSON ‡, DAMON §, POTTER, and BENEDICT; *Associate Professors* CROSBY, HUNTINGTON ||, and HASTINGS; *Assistant Professors* CLOUGH, MASON, BROWN, and WOOD; *Instructors: Messrs.* BROWN, MARKS, MOORE, PAXTON, and REYNOLDS; *Assistants: Messrs.* DODGE, GREEN, BRAITSCH, CARLETON, YORK, and —.

1. *Rhetoric and Composition* ¶

Training in the fundamentals of prose composition; especially, clear and correct expression. Lectures, recitations, and themes. *Professors* BENEDICT, MASON, BROWN, and WOOD, *Messrs.* MOORE, PAXTON, and REYNOLDS.

I; (3). Required of Freshmen. *Divisions 1 and 2: M., W., F., at 8; Divisions 3 and 4: Tu., Th., Sa., at 8; Divisions 5, 6, and 7: M., W., F., at 11.25; Divisions 8, 9, and 10: Tu., Th., Sa., at 11.25; Divisions 11, 12, and 13: M., W., F., at 12.25; Division 14: Tu., Th., Sa., at 12.25.*

1 R. *Rhetoric and Composition*

A repetition of 1. Lectures, recitations, and themes. *Mr.* PAXTON.

II; (3). Required of students who have failed in 1. *M., W., F., at 12.25.*

‡ On leave of absence during the academic year 1923-24.

§ On leave of absence during the second semester 1923-24.

|| On leave of absence during the first semester 1923-24.

¶ Credit for 1 or 2 is a prerequisite for admission to all other courses in the department except 48, 50, 49.

Students who receive *A* in English 1 will not be required to take any other course in composition. Students who receive *B* in English 1 may take 3, 4 or 7, 8 in the Sophomore year in place of 2.

48. *English Literature from the Beginning to 1700* ‡

An outline course in the history of English literature to the end of the seventeenth century, with reading and study of the greater writers. *Professors MASON, BROWN, and WOOD, Messrs. MOORE, PAXTON, and REYNOLDS.*

II; (3). *Division 1: M., W., F., at 8; Division 2: Tu., Th., Sa., at 8; Divisions 3 and 4: M., W., F., at 11.25; Divisions 5 and 6: Tu., Th., Sa., at 11.25; Division 7: M., W., F., at 12.25; Division 8: Tu., Th., Sa., at 12.25.*

50. *Introduction to the Study of Literature* ‡

Intended to cultivate the appreciation of literature by the reading and study of famous essays, novels, plays, and poems. *Professors CLOUGH and BROWN, Messrs. MARKS and —.*

II; (3). *Division 1: M., W., F., at 11.25; Division 2: Tu., Th., Sa., at 11.25; Divisions 3 and 4: M., W., F., at 12.25; Division 5: Tu., Th., Sa., at 12.25.*

2. *Rhetoric and Composition* §

A continuation of 1. Training in the method, structure, and style of the chief forms of prose composition. Lectures, recitations, and themes. *Professors BENEDICT, BROWN, and WOOD, Messrs. MOORE, PAXTON, and REYNOLDS.*

II; (3). Required of Sophomores who have not obtained a grade of *A* in 1. *Divisions 1, 2, and 3: M., W., F., at 11.25; Divisions 4, 5, and 6: Tu., Th., Sa., at 11.25; Divisions 7 and 8: M., W., F., at 12.25; Divisions 9 and 10: Tu., Th., Sa., at 12.25.*

F. *Special Work on Correct Usage*

Quantity and kind of work and times of meeting to be arranged to suit individual needs.

Required of students who have passed in 1, 2 but whose use of English has later been judged unsatisfactory.

‡ Freshmen are required to take either 48 or 50. Those who have had a high school course in the history of English Literature, with reading in the principal authors, are advised to take 50; others are advised to take 48.

Candidates for the degree of Sc.B. in Engineering who intend to take an approved substitute for English in the Sophomore year must take 2 in the Freshman year in place of 48 or 50. See page 56.

Courses 1-16 may not be counted in fulfillment of the requirement of a semester in English Literature.

§ Credit for 1 or 2 is a prerequisite for admission to all other courses in the department except 48, 50, 49.

Students who receive *A* in English 1 will not be required to take any other course in composition. Students who receive *B* in English 1 may take 3, 4 or 7, 8 in the Sophomore year in place of 2.

3, 4. *English Composition, Second Course*‡

Supplements the training given in 1 and 2. *Messrs. MARKS and REYNOLDS.*

I, II; (3). *M., W., F., at 10.25.*

5, 6. *English Composition, Advanced Course*‡

Intended to develop ease of style and clarity and vigor of thought. Frequent practice in composition and criticism. *Professor BENEDICT.*

I, II; (3). Elective for a limited number of Juniors and Seniors. With the consent of the instructor the course may be repeated. *Tu., Th., Sa., at 10.25.*

7, 8. *Argumentative Composition*

Intended to develop the power of handling argumentative topics cogently and persuasively. Lectures on the principles and forms of argumentative composition; frequent practice in brief-drawing and the writing of forensics and less formal arguments. First semester, *Professor HASTINGS*; second semester, *Professor HUNTINGTON.*

I, II; (3). Required in the Sophomore year of candidates for the degree of A.B. who choose argumentation as a substitute for Mathematics. Elective for Juniors and Seniors, and for approved Sophomores. *Tu., Th., Sa., at 10.25.*

10. *Debate*

Intended to train students in correct and vigorous oral presentation of ideas. *Professor HUNTINGTON, with the coöperation of the Professors of Economics, Social and Political Science, History, and Public Speaking.*

II; (3). Elective for a limited number of Juniors and Seniors who have credit for 7. With the consent of the instructor the course may be repeated. *Tu., 2 to 4; Th., 3 to 4.*

11, 12. *Public Speaking*

Principles of voice culture; vocal interpretation of literature; extempore speaking. *Professor CROSBY and Mr. BROWN.*

I, II; (3). Elective for Sophomores and Juniors. Not elective for Seniors. *Division 1: M., W., F., at 10.25; Division 2: M., W., F., at 11.25; Division 3: Tu., Th., Sa., at 9.25; Division 4: Tu., Th., Sa., at 11.25.*

[13, 14. *Public Speaking, Advanced Course*]

I, II; (3). Prerequisite: a grade of *A* or *B* in English 11, 12. Not offered in 1923-24.

‡ A final mark covering the year's work as a whole is given at the end of the course, the first semester's mark being only temporary.

49. *English Literature from 1700 to 1900*

An outline course in the history of English literature of the eighteenth and nineteenth centuries, with reading and study of the greater writers. *Professors DAMON, CLOUGH, and WOOD, Mr. MARKS.*

I; (3). *Divisions 1 and 2: M., W., F., at 11.25; Divisions 3 and 4: Tu., Th., Sa., at 11.25; Division 5: M., W., F., at 12.25; Division 6: Tu., Th., Sa., at 12.25.*

47. *Great Story-Tellers in Verse*

Readings in the chief English narrative poets, Chaucer, Scott, Byron, Morris, Masfield, and others. *Professor MASON.*

I; (3). Elective for Sophomores who have credit for a semester's work in English Literature. May be taken instead of 49 in fulfilment of the requirement in English Literature. *M., W., F., at 11.25.*

35. *English Literature from 1798 to 1832, Poetry*

The reaction from classicism; the influence of the French Revolution; liberalism and individualism in English poetry; contemporary criticism. Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats, and Landor. *Mr. MARKS.*

I; (3). Two or three hours of attendance. Prerequisite: a semester's work in English Literature. May be taken instead of 49 in fulfilment of the requirement in English Literature. *M., W., F., at 11.25.*

36. *English Literature from 1798 to 1832, Prose*

The development of the romantic novel; the rise of the reviews and quarterlies; essays and miscellaneous prose. Scott, Jane Austen, Coleridge, Jeffrey, De Quincey, Lamb, Hazlitt, and Macaulay. *Professor WOOD.*

II; (3). Two or three hours of attendance. Prerequisite: a semester's work in English Literature. *Tu., Th., Sa., at 11.25.*

37. *English Literature from 1832 to 1892, Prose*

Modifications of romanticism; realism; the influence of science and democracy; tendencies at the end of the century. Essays, history, miscellaneous prose, the novel. Carlyle, Ruskin, Arnold, Pater, Huxley, Dickens, Thackeray, Charlotte Brontë, George Eliot, Meredith, and Hardy. *Professor DAMON.*

I; (3). Two or three hours of attendance. Prerequisite: a semester's work in English Literature. May be taken instead of 49 in fulfilment of the requirement in English Literature. *Tu., Th., Sa., at 12.25.*

38. *English Literature from 1832 to 1892, Poetry*

Modifications of romanticism; the influence of science and democracy; tendencies at the end of the century. Tennyson, Browning, Arnold, Clough, Rossetti, Morris, and Swinburne. *Professor DAMON.* I; (3). Two or three hours of attendance. Prerequisite: a semester's work in English Literature. *Tu., Th., Sa., at 10.25.*

31. *Browning*

Reading and interpretation of Browning's most significant poems. *Professor HASTINGS.*

II; (3). Prerequisite: a semester's work in English Literature. Not to be offered in 1924-25. *Tu., Th., Sa., at 10.25.*

[46. *The Poetic Drama of the Nineteenth Century*]

II; (3). Prerequisite: a year's work in English Literature. Not offered in 1923-24.

[25, 26. *Shakspeare*]

I, II; (3). Elective for Sophomores, Juniors, and Seniors. Not offered in 1923-24.

27, 28. *Shakspeare*

A brief survey of the drama before Shakspeare; Shakspeare as playwright and poet. Reading of all the plays; careful study of the great tragedies and some of the comedies and histories. *Professor BENEDICT.* I, II; (3). Prerequisite: a year's work in English Literature. *M., W., F., at 10.25.*

[21, 22. *The Drama in England to 1642*]

I, II; (3). Prerequisite: a year's work in English Literature. Not offered in 1923-24.

23, 24. *The Modern English Drama*

The history of the English drama from 1660 to the present time. Reading and discussion of the work of the chief playwrights from Wycherley and Congreve to Jones, Pinero, and Shaw. *Professor CROSBY.*

I, II; (3). Prerequisite: a year's work in English Literature. *M., W., F., at 12.25.*

[29. *English Literature, exclusive of the Drama, from 1558 to 1603*]

I; (3). Prerequisite: a year's work in English Literature. Not offered in 1923-24.

[30. *English Literature, exclusive of the Drama, from 1603 to 1660*]

II; (3). Prerequisite: a year's work in English Literature. Not offered in 1923-24.

33, 34. *The English Novel*

The history of the English novel from 1700 to 1900; reading and discussion of the greater English novelists, including Defoe, Richardson, Fielding, Smollett, Scott, Jane Austen, Dickens, Thackeray, Charlotte and Emily Brontë, George Eliot, Meredith, and Hardy. *Professor POTTER.*

I, II; (3). Two or three hours of attendance. Prerequisite: a year's work in English Literature. *M., W., F., at 9.25.* Not to be offered in 1924-25.

[29, 30. *American Literature*]

I, II; (3). Prerequisite: a year's work in English Literature. Not offered in 1923-24.

41. *Contemporary Poets and Essayists*

A study of the tendencies of modern thought as reflected in English and American poets and essayists of the present generation, including Aiken, Brooke, de la Mare, Frost, Lindsay, Lowell, Masfield, Masters, Moody, Newbolt, Noyes, Robinson, Beerbohm, Chapman, Mencken, Shaw, and Yeats. *Professor CLOUGH.*

I; (3). Two or three hours of attendance. Elective for Juniors and Seniors who have credit for a year's work in English Literature, with a grade of *A* or *B* in at least one semester. *M., W., F., at 12.25.*

42. *Contemporary Novels*

Reading and study of leading English and American novelists of the present generation, including Hewlett, Bennett, De Morgan, Wells, Conrad, Galsworthy, and Edith Wharton. *Professor MASON.*

II; (3). Two or three hours of attendance. Elective for Juniors and Seniors who have credit for a year's work in English Literature, with a grade of *A* or *B* in at least one semester. *M., W., F., at 12.25.*

15, 16. *Old English*

Essentials of Anglo-Saxon grammar; prose selections; *Béowulf*. *Professor* POTTER.

I, II; (3). Elective for Juniors, Seniors, and Graduates. *Tu.*, 3 to 5; *Th.*, 3 to 4.

17, 18. *Chaucer*

Reading of most of Chaucer's works; discussion of the chief types of medieval literature; study of Middle English grammar, with some attention to the development of Modern English. *Professor* POTTER.

I, II; (3). Elective for Juniors, Seniors, and Graduates. *M.*, 2 to 4; *Th.*, 2 to 3.

43, 44. *Seminary in English*

Subject for 1923-24: Special problems in Shakspearean study. *Professor* HASTINGS.

I, II; (3). Two hours of attendance. Elective for Graduates and for Seniors who have received *A* or *B* in two years' work in English Literature, including 25, 26 or 27, 28. *Th.*, 4 to 6.

GEOLOGY ‡

Associate Professor BROWN; *Instructors*: *Dr.* WILLARD and *Mr.* FISHER.

1. *Elementary Physical Geology*

An introductory course in the interpretation of geological evidence. The origin of the earth; its land forms, materials, and structure, and the agencies concerned in their production. *Professor* BROWN, *Dr.* WILLARD, *Mr.* FISHER.

I; (3). Elective for Undergraduates. Laboratory fee, \$2.50. *M.*, *W.*, *F.*, at 10.25.

6. *Principles of Economic Geography*

A study of the environmental factors—such as the physiography, the climate, the soils, and the geographic distribution of organic and inorganic natural resources—that influence the utilization and the economic and political development of a region in the location and development of transportation routes and commerce, agriculture,

‡ 1 is preliminary to the other courses except 9, 10. Course 6 is of particular value to students intending to specialize in economics, history, or social science, or to enter business; 2, 17, 18 to students in biology; 4, 7 to students in engineering; 9, 10 to students in chemistry.

forestry, manufacturing, and other industries, and affect racial and political boundaries. *Professor BROWN.*

II; (3). Elective for Undergraduates. *M., W., F., at 10.25.*

2. *Elementary Historical Geology*

The geological history of the earth from its origin to recent times, emphasizing North America, its dynamic, geographic, and climatic changes, and evolution of life. *Dr. WILLARD.*

II; (3). Elective for Undergraduates who have credit for 1. Laboratory fee, \$2.50. *M., W., F., at 10.25.*

4, 13. *Structural and Dynamical Geology*

A study of the origin and development of the primary and secondary structural features of the earth's crust in connection with sedimentation, mountain-building, folding, faulting, and vulcanism. *Professor BROWN and Dr. WILLARD.*

I, II; (3). Elective for Sophomores, Juniors, and Seniors who have credit for 1. Laboratory fee, \$2.50 for 4. *Tu., Th., at 10.25.*

7. *Economic Geology of Materials*

The geology of fuels, of the major ores, of raw materials used for structural and building purposes; their geographic distribution, geologic occurrence, recognition, and production. *Professor BROWN and Mr. FISHER.*

II; (3). Two lecture and two laboratory hours. Elective for Sophomores, Juniors, and Seniors who have credit for 1.

[5. *General Geography of Latin America*]

I; (3). Two lecture and two conference hours. Elective for Undergraduates except Freshmen and Sophomores who are taking another course in the department. Not offered in 1923-24.

9, 10. *Mineralogy and Petrography*

An introductory course in the macroscopic and microscopic study of minerals, ores, and rocks, their chemical relations and economic uses. First semester: discussion of crystal forms and the laws of crystallography; determination by physical properties and blow-pipe analysis of the more common minerals and ores. Second semester: study of the optical properties of the rock-forming minerals, rocks, and ores, under the polarizing microscope; determination of rock types; dis-

cussion of the fundamental principles of the origin and classification of rocks. *Mr. FISHER.*

I, II; (3). Six hours of attendance. Elective for Sophomores, Juniors, and Seniors. Laboratory fee, \$5 a semester. *Tu., Th., at 11.25.*

17, 18. *Paleontology*

The origin and significance of fossil plants and animals, with special reference to their evolution as shown by the paleontological record. Emphasis is laid upon the morphology, classification, and development of groups that are extinct, or only poorly represented at the present time. *Dr. WILLARD.*

I, II; (3). Two lecture and two laboratory hours. Elective for Sophomores, Juniors, or Seniors. Either semester may be elected independently. Geology 2 and Biology 1 are recommended as preliminaries.

11, 12. *Research in Geology and Geography*

Advanced work in the library, laboratory, or field, in the various phases of geology or geography. Arranged to meet the needs of individual students. The region in which the University is situated provides unusual opportunities in a small compass for the study of both simple and complex problems in physiographic, metamorphic, petrographic, mineralogic, paleontologic, and stratigraphic geology. *Professor BROWN, Dr. WILLARD, and Mr. FISHER.*

I, II; (1-6). Elective for Graduates and approved Undergraduates. Either semester may be elected independently.

GERMANIC LANGUAGES AND LITERATURES

Associate Professor CROWELL; Assistant Professor MITCHELL†; Instructor: Mr. HERRMANN.

1, 2. *Elementary German, First Year*

Aims to enable the student to read easy German prose. Grammar, dictation, practice in conversation and writing. *Professor CROWELL and Mr. HERRMANN.*

I, II; (3). Elective for students who have not presented German for admission. Students wishing to complete six hours of elementary German in prepa-

† On leave of absence during the academic year 1923-24.

ration for 5, 6 should elect also 1 A, 2 A. *Division 1: Tu., Th., Sa., at 9.25; Division 2: M., W., F., at 12.25; Division 3: M., W., F., at 9.25.*

[1 A, 2 A. *Elementary German, First Year, Oral Practice*]

I, II; (3). Elective for students who have not presented German for admission. Students wishing to complete six hours of elementary German in preparation for 5, 6 should elect also 1, 2. Not offered in 1923-24.

3, 4. *Elementary German, Second Year*

Reading of modern German stories, lyrics, and descriptive prose. Review of grammar; composition and conversation. *Mr. HERRMANN.*

I, II; (3). Elective for students who have credit for 1, 2 or 1 A, 2 A, or who have presented elementary German (1 year) for admission. *M., W., F., at 10.25.*

5, 6. *Intermediate German, I*

Reading of fairly difficult modern German prose and one or two dramas of the classical period. Review of grammar; composition; conversation based upon the texts read. *Mr. HERRMANN.*

I, II; (3). Elective for students who have credit for 3, 4 or for 1, 2 and 1 A, 2 A, or who have presented elementary German (2 years) for admission. *Tu., Th., Sa., at 10.25.*

11, 12. *Intermediate German, II*

Germany and the Rhine Valley; the geography, legends, and intellectual life as background of standard German literature; special attention to the chief cities and centres of culture. Lectures with lantern slides, reading of prose and verse; study of language continued as in 5, 6, to which the course is parallel. *Professor CROWELL.*

I, II; (3). Elective for students who have credit for 3, 4 or who have presented elementary German (2 years) for admission. *M., W., F., at 12.25.*

[5 A, 6 A. *Intermediate German, Oral Practice and Composition*]

I, II; (3). Elective for students who have credit for 3, 4 and for others by permission. Cannot be taken to fulfil the requirements in modern language. Not offered in 1923-24.

7, 8. *Advanced German*

One drama of Goethe or Schiller; one drama of Kleist or Hebbel; lyrics; three short stories. Talks in German on German literature. German composition. *Professor CROWELL.*

I, II; (3). Elective for students who have credit for 5, 6; or who have passed 3, 4 with grade *B*; or who have presented intermediate German for admission. *M., W., F., at 11.25.*

[9, 10. *Modern Germany: Advanced Composition*]

I, II; (3). Elective for students who have credit for 7, 8; or who have passed 5, 6 with grade *B* or 3, 4 with grade *A*; or who have presented intermediate German for admission. Not offered in 1923-24.

[19, 20. *Introduction to Scientific Prose*]

I, II; (3). Elective for students who have credit for 5, 6 and for others by permission. Not offered in 1923-24.

[17, 18. *Lessing and Schiller*]

I, II; (3). Elective for students who have credit for 5, 6 with grade of *B*, and for others by permission. Not offered in 1923-24.

[23, 24. *Goethe*]

I, II; (3). Elective for students who have passed 5, 6 with grade of *B*, and for others by permission. Not offered in 1923-24.

[13, 14. *The German Short Story*]

I, II; (3). Elective for students who have credit for 7, 8 or 9, 10, or who have passed 5, 6 with grade of *B*. Not offered in 1923-24.

[15, 16. *The German Drama of the Nineteenth Century*]

I, II; (3). Elective for students who have credit for 7, 8 or 9, 10, or who have passed 5, 6 with grade of *B*. Not offered in 1923-24.

25, 26. *Outline History of German Literature*

A general survey aiming to acquaint the student with the most important writers of Germany and their works, as well as with the chief literary currents through the centuries. Lectures, extensive reading of texts, and reports. *Mr. HERRMANN.*

I, II; (3). Elective for students who have credit for 7, 8 or who have passed 5, 6 with grade of *B*. *Tu., Th., Sa., at 11.25.*

[27, 28. *German Literature in the Nineteenth Century*]

I, II; (3). Elective for students who have credit for 7, 8 or 9, 10. Not offered in 1923-24.

31. *Gothic*

An outline of the development of the early Germanic dialects, followed by study of the Gothic language; reading of the selections from Ulfilas' Bible contained in Wright's *Grammar of the Gothic Language*. Course suited to the needs of advanced students of language. *Professor CROWELL.*

I, II; (1½). Elective for Juniors, Seniors, and Graduates. *Th.*, 2.45 to 4 through the year.

GREEK AND LATIN CLASSICS

Professor ALLINSON; Associate Professors GREENE and SMITH; Assistant Professor O'BRIEN-MOORE.

GREEK LITERATURE AND HISTORY

A, B. *Beginner's Course*

Enables the student by the end of his first year to read Homer with considerable ease. The study of grammar is based upon the first book of the *Iliad*. The course is a preparation for Greek 1 A, or, if he also completes the private reading of supplementary selections and passes a special examination on them, he may be admitted to Greek 1. *Professor SMITH.*

I, II; (3). Elective for students who have not presented elementary and advanced Greek for admission. *M., W., F.*, at 12.25.

1. *Epic and Lyric Poetry*

Selections from the *Odyssey*, from the more important lyric poets, and from the Epigrams. *Professor SMITH.*

I; (3). Elective for students who have presented elementary and advanced Greek for admission, or who have credit for A, B and have done the additional work indicated above. *Tu., Th., Sa.*, at 10.25.

1 A. *Homer and Herodotus*

Continued by Greek 2 in the second semester. *Professor ALLINSON or Professor SMITH.*

I; (3). Elective for students who have credit for Greek A, B, or who present two years of Greek for admission. *Tu., Th., Sa.*, at 10.25.

2. *Plato and Lysias*

Plato: *Apology* and *Crito*, with selections from the *Phædo*, and collateral readings from Xenophon's *Memorabilia* and the *Clouds* of Aristophanes. Lysias: *Orations* VII, XXII, XXIII, XXIV. *Professor ALLINSON.*

II; (3). Elective for students who have credit for 1 or 1 A. *Tu., Th., Sa., at 10.25.*

3. *Lucian and the Dramatic Poets*

Selections from Lucian. Lectures on the Greek drama. The *Œdipus Tyrannus* of Sophocles and collateral reading in the *Prometheus* of Æschylus. *Professor ALLINSON.*

I; (3). Elective for Sophomores. *M., W., F., at 8.*

4. *The Historians*

The eighth book of Herodotus, with collateral reading of the *Persians* of Æschylus and Plutarch's *Themistocles*. The seventh book of Thucydides, with collateral reading of the *Acharnians* of Aristophanes. *Professor ALLINSON or Professor SMITH.*

II; (3). Elective for Sophomores. *M., W., F., at 10.25 or 8.*

5. *Æschylus and Plato*

The *Agamemnon* of Æschylus and the *Republic* of Plato. *Professor ALLINSON.*

I; (3). Elective for Juniors and Seniors.

6. *Oratory*

Demosthenes: *On the Crown* and selections from the rival speech by Æschines. *Professor SMITH.*

I; (3). Elective for Juniors and Seniors.

[7. *The Drama and Plato*]

I; (3). Elective for Juniors and Seniors. Not offered in 1923-24.

[10. *The Iliad*]

II; (3). Elective for Juniors and Seniors. Not offered in 1923-24.

12. *Greek Composition*

Professor ALLINSON.

II; (1). Elective for Undergraduates.

[13, 14. *Modern Greek*]

I, II; (1). Elective for Juniors and Seniors. Not offered in 1923-24.

15. *Greek Civilization*

The life of the Greeks from Homer to the second century after Christ, with special study of the classical period as illustrated by the literature, history, and monuments of art. Must be preceded or followed by Latin 16, Roman Civilization. The two semesters together constitute the required course in Classical Civilization. *Professors ALLINSON and SMITH.*

I or II; (3). Required in the Freshman or Sophomore year of candidates for the degree of Bachelor of Philosophy. Not elective. First semester: *Division 1: M., W., F., at 9.25; Division 2 (first semester only): M., W., F., at 9.25.* Second semester: *M., W., F., at 11.25.*

19. *Greek Drama in English*

The poetical dramas of Æschylus, Sophocles, Euripides, Aristophanes, and Menander—both tragedy and comedy—read in translations and discussed with relation to later drama. *Professor SMITH.*

II; (3). Elective for Juniors and Seniors. *Tu., Th., Sa., at 11.25.*

[16. *The Natural History of Language*]

II; (3). Elective for Undergraduates. Not offered in 1923-24.

17, 18. *Greek Seminary*

First semester: Selections from the Greek Anthology arranged historically. Survey of contemporary Greek history and literature from *Solon to Lucian.* *Professor ALLINSON.* Second semester: *Euripides.* *Professor SMITH.*

I, II; (3). Two hours of attendance. Elective for Graduates and approved Seniors.

ROMAN LITERATURE AND HISTORY

A, B. *Virgil and Ovid*

Selections. *Professor O'BRIEN-MOORE.*

I, II; (3). For candidates for the degree of A.B. who have presented only three units of Latin for admission. *Tu., Th., Sa., at 10.25.*

1. *Livy, Books XXI, XXII*

Designed to enable the student to acquire facility in reading Latin, and to give an insight into the practical philosophy of the Romans in public and private life. *Professor O'BRIEN-MOORE.*

I; (3). Elective for students who have presented elementary and advanced Latin for admission. *Tu., Th., Sa., at 11.25.*

2. *Selections from Horace*

Critical study of certain poems, supplemented by rapid reading of others. The social and political ideals of the early Empire are emphasized. *Professor GREENE.*

II; (3). Elective for students who have presented elementary and advanced Latin for admission. *Tu., Th., Sa., at 11.25.*

3. *Selections from Tacitus, Pliny the Younger, Martial*

Especial attention will be given to the literary style and to the moral and social life of the period. *Professor O'BRIEN-MOORE.*

I; (3). Elective for Sophomores. *M., W., F., at 10.25.*

4. *Plautus' Captivi, Trinummus; Terence's Phormio*

The main objects will be to appreciate Roman comedy, to show its relation to modern comedy, and to acquire a feeling for Latin as a spoken language. *Professor GREENE.*

II; (3). Elective for Sophomores. *M., W., F., at 10.25.*

5, 6. *Latin Poetry*

Authors read determined after consultation with those electing the course. *Professor O'BRIEN-MOORE.*

I, II; (3). Elective for Juniors and Seniors. Either semester may be elected independently. *Hours to be arranged.*

7, 8. *Latin Literature: Selections*

Authors read determined after consultation with those electing the course. *Professor GREENE.*

I, II; (3). Elective for Juniors and Seniors. Either semester may be elected independently. *Hours to be arranged.*

[11, 12. *Latin Composition*]

I, II; (1). Elective for Sophomores, Juniors, and Seniors. Not offered in 1923-24.

13, 14. *History of the Roman Empire*

The Early Empire; the Age of the Antonines; the Age of Constantine. *Professor GREENE.*

I, II; (3). Elective for Sophomores, Juniors, and Seniors. Either semester may be elected independently. *Tu., Th., Sa., at 9.25.*

16. *Roman Civilization*

An outline of Roman civilization and its influence on modern times. Special attention will be given to the literature and to the political and social life. No knowledge of Latin required. Must be preceded or followed by Greek 15, Greek Civilization. The two semesters together constitute the required course in Classical Civilization. *Professor GREENE.*

I or II; (3). Required in the Freshman or Sophomore year of candidates for the degree of Bachelor of Philosophy. Not elective. *Division 1: M., W., F., at 9.25; Division 2: M., W., F., at 11.25.*

[17, 18. *Seminary in Latin*]

I, II; (3). Two hours of attendance. Elective for Graduates. Not offered in 1923-24.

HISTORY †

Professor COLLIER; Associate Professor GEORGE; Assistant Professor CRANE; Instructors: Mr. BOTSFORD and Dr. GARBER; Assistant: Mr. BAKER.

1, 2. *History of Medieval and Modern Europe* ‡

A general survey of the history of western Europe from the Middle Ages to the conclusion of the World War. Lectures, text-book, assigned reading, reports, and frequent tests. *Professors COLLIER and GEORGE, Mr. BOTSFORD, Dr. GARBER.*

I, II; (3). Required of candidates for the degree of A.B. or Ph.B. who have not presented for admission Medieval and Modern European History, or English History. Must be taken in the Freshman or Sophomore year. Elective, upon permission, for students who have credit for or are taking 21, 22. *M., Th., F., at 2.*

‡ Candidates for the degree of A.B. or Ph.B. who have presented for admission Medieval and Modern European History, or English History, but not American History, must take 21, 22. Other students must take 1, 2. This requirement must be fulfilled not later than the Sophomore year.

The elective courses in History are regularly open only to students who have credit for 1, 2 or 21, 22, but by special permission of the instructor certain elective courses may be taken by students who are at the same time taking 1, 2 or 21, 22.

21, 22. *The United States, 1783-1923* ‡

A general survey of the development of American society, politics, and institutions, and of the relations of the United States with other countries, since the Revolution. Lectures, text-book, collateral reading, map exercises, oral and written discussions. *Professor CRANE and Dr. GARBER.*

I, II; (3). Required of candidates for the degree of A.B. or Ph.B. who have presented for admission Medieval and Modern History, or English History, but not American History. Elective, upon permission, for students who have credit for or are taking 1, 2. *Tu., Th., Sa., at 9.25.*

3, 4. *Economic History of Europe, 1200-1923*

An advanced course in the development of European economic life and institutions from the later Middle Ages to the close of the Great War: manorial system; rise of towns; merchant- and craft-gilds; establishment of colonial and commercial empires; mercantilism; transformation of agriculture; the industrial revolution; capitalism and the factory system; recent imperialism; economic significance of the Great War. *Mr. BOTSFORD.*

I, II; (3). Elective for Juniors and Seniors who have credit for History 1, 2 or 21, 22, and who have taken or are taking Economics 1 or 2. History 3 and 4 should be taken in their proper chronological order; but, with the permission of the instructor, either course may be elected independently. *Tu., Th., Sa., at 11.25.*

[5. *The French Revolution and the Napoleonic Era*]

I; (3). Not offered in 1923-24.

[6. *The World War and Afterward, 1914-1923*]

II; (3). Not offered in 1923-24.

7. *The Making of the British Empire*

A study of the expansion of Great Britain overseas, with special emphasis upon the evolution of the British Commonwealth of Nations. *Professor GEORGE.*

I; (3). Prerequisite: History 1, 2 or 21, 22. *Tu., Th., Sa., at 9.25.*

‡ Candidates for the degree of A.B. or Ph.B. who have presented for admission Medieval and Modern European History, or English History, but not American History, must take 21 22. Other students must take 1, 2. This requirement must be fulfilled not later than the Sophomore year.

The elective courses in History are regularly open only to students who have credit for 1, 2 or 21, 22, but by special permission of the instructor certain elective courses may be taken by students who are at the same time taking 1, 2 or 21, 22.

8. *Great Britain since the Industrial Revolution*

A consideration of the domestic problems and policies of a great modern democracy during a period of marked economic and social change. *Professor GEORGE.*

II; (3). Prerequisite: History 1, 2 or 21, 22. *Tu., Th., Sa., at 9.25.*

[9. *Modern European History, 1815-1871*]

An advanced course in the history of Europe from the Congress of Vienna to the conclusion of the Franco-Prussian War.

I; (3). Not offered in 1923-24.

[10. *Modern European History, 1871-1919*]

A continuation of 9, from the founding of the German Empire to the Treaty of Versailles.

II; (3). Not offered in 1923-24.

11, 12. *European History Seminary*

Systematic and intensive study of a limited period or special phase of political or social development, with a view to training the student in the technique of historical investigation. Subject for 1923-24: The historical bases of the peace treaties, 1919-1921. *Professor COLLIER.*

I, II; (3; for Graduates, 3 or 6). Elective for Graduates and a limited number of approved Seniors and Juniors; permission to enrol must be obtained from the instructor. *4 to 6; day at convenience of instructor and class.*

15. *Modern Russia*

A survey of political, economic, and social tendencies and developments in Russia during the last two hundred years, with a view to an understanding of the causes and significance of the Revolution of 1917. *Professor COLLIER.*

I; (3). Prerequisite: History 1, 2 or 21, 22. *Tu., Th., Sa., at 10.25.*

16. *The Far East and the Pacific*

Primarily a study of the relations of China, Japan, and the Pacific Islands with Europe and the United States since the beginning of the nineteenth century. *Professor COLLIER.*

II; (3). Prerequisite: History 1, 2 or 21, 22. *Tu., Th., Sa., at 10.25.*

25, 26. *Economic and Social Development of the United States*

Topical studies of American society in its non-political aspects from the seventeenth century to the present. *Professor CRANE.*

I, II; (3). Prerequisite: History 1, 2 or 21, 22. Either semester may be elected independently. *M., W., F., at 11.25.*

27. *The United States in Contact with Foreign Nations*

The following topics will receive special attention: Diplomacy of the American Revolution; The Monroe Doctrine; Anglo-American diplomacy; American relations with the Latin-American nations and the Far East; Rise of American Imperialism; attitude of the United States toward international conciliation and arbitration. *Dr. GARBER.*

I; (3). Prerequisite: History 1, 2 or 21, 22. *M., W., F., at 9.25.*

30. *Latin-American History*

The origin, colonization, and evolution of the Hispanic peoples and institutions in the western hemisphere, with particular attention to the relations of these nations with the United States. *Dr. GARBER.*

II; (3). Prerequisite: History 1, 2 or 21, 22. *M., W., F., at 9.25.*

31, 32. *American History Seminary*

Designed to afford training in the methods of historical investigation and the use of sources through intensive study in a limited field. Subject for 1923-24: Studies of the American Revolution. *Professor CRANE.*

I, II; (3; for Graduates, 3-6). Elective for Graduates and approved Seniors. Admission only on approval of the instructor. 4 to 6; day at convenience of instructor and class.

MATHEMATICS†

Professors RICHARDSON, RANDALL, and ARCHIBALD; *Assistant Professors* CURRIER §, BURGESS, GILMAN, and BURWELL; *Instructors: Drs.* BORDEN and ADAMS, *Messrs.* HICKSON, FITHIAN, HICKS, and MACPHERSON; *Lecturer: Dr.* MANNING.

A. Elementary Algebra II

Dr. BORDEN and *Mr.* FITHIAN.

I; (3). Required of students who presented only Plane Geometry and Elementary Algebra I for admission. *Two divisions, Tu., Th., Sa., at 9.25.*

2. Plane Trigonometry

Dr. BORDEN and *Mr.* FITHIAN.

II; (3). Required of students who presented only Plane Geometry and Elementary Algebra I for admission. *Two divisions, Tu., Th., Sa., at 9.25.*

61, 62. Elementary Analysis, First Year

Designed to give a brief introduction to some of the concepts and methods of mathematics. Selected topics from Graphical Representation, Trigonometry, Analytic Geometry, and Calculus, which give an introduction to the fundamental mathematical ideas of scientific and economic theories. *Professors* BURGESS and GILMAN, *Drs.* BORDEN and ADAMS, *Messrs.* FITHIAN, HICKS, and MACPHERSON.

I, II; (3). Elective for candidates for the degrees of A.B. and Ph.B. who presented Elementary Algebra complete and Plane Geometry, but not Plane Trigonometry, for admission. *Three divisions, M., W., F., at 9.25; four divi-*

† Students presenting for admission only Elementary Algebra I and Plane Geometry should take A and 2; those presenting also Elementary Algebra II should take 61, 62; those presenting in addition, Trigonometry, should take 63, 64. Those who wish to specialize in mathematics should consult some member of the department before registering, and should, if possible, take two courses in the first year. For the second and following years 65, 66, 7, 8 is the regular sequence and in addition the student should take 1, 3 (if he has not already credit for them), and as many as possible of the courses 9-12, 14, 16, 21-44, 55, 56.

It is recommended that students who contemplate teaching in the secondary schools elect courses through 8, 27, and 41-44.

Courses 17-20, 50, are primarily for candidates for the degree of Sc.B. in Engineering, but may be elected by others who wish to advance more rapidly with their mathematical preparation.

Courses 21-40, 55, 56 are designed primarily for Graduates. Three or four of these courses are offered each year according to the needs of the students. For those who have taken all of them, other courses can usually be arranged.

Any course in which five students do not register may be withdrawn.

§ On leave of absence during the academic year 1923-24.

sions, Tu., Th., Sa., at 9.25; two divisions, M., W., F., at 10.25. In each group the divisions are made up on the basis of scholarship.

61 R. *Elementary Analysis*

A repetition of 61. Dr. BORDEN and Mr. HICKS.

II; (3). Elective for those who enter at mid-year, and for others who have no credit for this course. One division, M., W., F., at 9.25; one division, Tu., Th., Sa., at 9.25.

62 R. *Elementary Analysis*

A repetition of 62. Professor GILMAN.

I; (3). M., W., F., at 9.25.

63, 64. *Elementary Analysis, First Year*

Similar to 61, 62, except that Algebra will be substituted for Trigonometry. Professors RICHARDSON and ARCHIBALD, Dr. ADAMS, Mr. MACPHERSON.

I, II; (3). Prerequisite: Elementary Algebra (complete), Plane Geometry, and Plane Trigonometry. Two divisions, M., W., F., at 9.25; two divisions, Tu., Th., Sa., at 11.25.

1. *Solid Geometry*

Mr. FITHIAN.

I; (3). Elective for Sophomores, Juniors, and Seniors, and for Freshmen who have not presented Solid Geometry for admission and who wish to take an additional course. Required without college credit of candidates for the degree of Sc.B. who have not presented it for admission. Tu., Th., Sa., at 11.25.

3. *Algebra*

Permutations and combinations, probability, complex numbers, theory of equations, etc. Fundamental for students who wish to specialize in mathematics. Dr. BORDEN.

II; (3). Elective for Sophomores, Juniors, and Seniors, and for Freshmen who did not present Advanced Algebra for admission and who wish to take an additional course. Tu., Th., Sa., at 11.25.

65, 66. *Elementary Analysis, Second Year*

A continuation of 61, 62 or 63, 64. The main emphasis is laid on the Differential and Integral Calculus. New topics in Trigonometry and Analytic Geometry are taken up also. Professor ARCHIBALD.

I, II; (3). Prerequisite: Mathematics 62 or 64. Tu., Th., Sa., at 12.25.

7, 8. *Analytic Geometry and Differential and Integral Calculus*
Dr. BORDEN.

I, II; (3). Prerequisite: Mathematics 66. *M., W., F., at 9.25.*

9. *Differential Equations*

Professor GILMAN.

I; (3). Prerequisite: Mathematics 8 or 20. A part of this course, counting for one hour, is recommended during the first third of the semester for all students specializing in Electrical Engineering. *Tu., Th., Sa., at 12.25.*

[11. *Analytic Geometry of Three Dimensions*]

I; (3). Elective for students who have credit for 7, 8 and for others by permission. Not offered in 1923-24.

[12. *Modern Analytic Geometry*]

II; (3). Elective for students who have credit for 7, 8 and for others by permission. Not offered in 1923-24.

14. *Fourier's Series*

A problem course which constitutes an introduction to the treatment of some of the important linear partial differential equations which lie at the foundation of modern theories in physics. Byerly's *Fourier's Series and Spherical Harmonics* will be the text. Professor GILMAN.

II; (3). Prerequisite: Mathematics 9.

16. *Spherical Trigonometry*

Dr. ADAMS.

II; (1). Prerequisite: Plane Trigonometry.

17, 18. *Plane Trigonometry, Analytic Geometry, and Calculus*

Professors BURGESS and BURWELL, Dr. ADAMS, Mr. HICKSON.

I, II; (4). Required of candidates for the degree of Sc.B. There are three divisions during the first semester for those who present Plane Trigonometry for admission. *Four divisions, Tu., W., Th., Sa., at 8.*

17 R. *Plane Trigonometry and Analytic Geometry*

A repetition of 17. Professor BURGESS.

II; (4). *Tu., W., Th., Sa., at 8.*

18 R. *Calculus*

A repetition of 18. Mr. HICKS.

I; (4). M., W., F., at 11.25; Tu. at 8.

19, 20. *Analytic Geometry and Calculus*

Professor RICHARDSON.

I, II; (3). Required of candidates for the degree of Sc.B. M., W., F., at 11.25.

19 R. *Calculus*

A repetition of 19. Dr. BORDEN.

II; (3). M., W., F., at 11.25.

20 R. *Analytic Geometry and Calculus*

A repetition of 20. Mr. MACPHERSON.

I; (3). M., W., F., at 11.25.

21, 22. *Function Theory of a Complex Variable*

An introduction to the theory of analytic functions. Dr. ADAMS.

I, II; (3). M., W., F., at 11.25.

[25, 26. *Advanced Algebra*]

I, II; (3). Elective for students who have credit for 3, 41, 42, and for others by permission. Not offered in 1923-24.

[27, 28. *Projective Geometry*]

I, II; (3). Elective for Graduates and approved Undergraduates. Not offered in 1923-24.

[29, 30. *Introduction to Advanced Analysis*]

I, II; (3). Elective for students who have credit for the Calculus, and who have credit for or are taking 41, 42. Not offered in 1923-24.

31, 32. *Applications of Calculus to Geometry*

Introductory course in the Differential Geometry of plane and space curves; curved, ruled, and developable surfaces; families and nets of curves on surfaces; triply orthogonal systems of surfaces; and conformal representation of one surface upon another. The historical development of the subject is also presented, and Gauss's memoir

on *General Investigations of Curved Surfaces* is read. *Professor* ARCHIBALD.

I, II; (3). *M., W., F., at 12.25.*

37, 38. *Theory of Relativity*

The mathematical development of the Einstein Theory. *Dr.* MANNING.

I, II; (1). Elective for Graduates and approved Undergraduates. *F. at 3.*

39, 40. *Seminary Courses*

An introduction to the modern theory of the Calculus of Variations. *Professor* RICHARDSON.

I, II; (3). Elective for Graduates and approved Seniors. *Tu., 2.30 to 4; Th., 3 to 4.30.*

Actuarial Mathematics. *Professor* GILMAN.

I, II; (3). Elective for approved students.

[41, 42. *Fundamental Problems of Algebra*]

I, II; (3). Elective for Sophomores, Juniors, and Seniors. Not offered in 1923-24.

43, 44. *Foundations, Methods, and Problems of Geometry*

The main topics of the course are: foundations; Euclid and his modern rivals; methods for attacking Euclidean problems; famous problems; history. *Dr.* BORDEN.

I, II; (3). *Tu., Th., Sa., at 11.25.*

50. *Descriptive Geometry*

Professors RANDALL and BERARD, *Mr.* BLISS.

II; (3). Required in the Freshman year of candidates for the degree of Sc.B. who have credit for Engineering 3. Elective for other approved students. *Three divisions, M., W., F., at 10.25.*

53. *Mathematical Theory of Investment*

The computation of interest, both simple and compound; the amortization of debts, the theory of bond values, depreciation, sinking funds, annuities, and life insurance. *Professor* BURGESS.

I; (3). Elective for Juniors and Seniors who have credit for 62 or 64, and for Sophomores by special permission. The preliminary mathematics is reviewed. *M., W., F., at 10.25.*

54. Mathematical Theory of Statistics

The mathematical methods used in statistical analysis; designed for students who desire to apply these methods to problems in education, economics, public health, etc. Topics treated include: tabular and graphic methods, frequency distributions, averages, index numbers, measures of dispersion, the normal probability curve, regression equations, and correlation. *Professor BURGESS.*

II; (3). Elective for Juniors, Seniors, and Graduates who have credit for one year of college mathematics. *Hours to be arranged.*

[55, 56. Theoretical Mechanics]

I, II; (3). Elective for Graduates and approved Undergraduates who have credit for 7, 8 or 19, 20. Not offered in 1923-24.

ASTRONOMY

[1, 2. Descriptive Astronomy]

I, II; (3). Elective for candidates for the degree of A.B. or Ph.B. who have credit for or are taking Plane Trigonometry. Not offered in 1923-24.

[7, 8. Advanced Astronomy].

I, II; (3). Elective for approved students. Not offered in 1923-24.

MUSIC

Assistant Professor WARE.

3, 4. The Appreciation of Music

A general course in the evolution of modern music. Not technical but designed to meet the needs of students, whether or not themselves performers, who wish to acquire an intelligent understanding and enjoyment of good music.

I, II; (3). Elective for Sophomores, Juniors, and Seniors. *M., W., F., at 12.25.*

1, 2. The Opera and the Symphony

An advanced course in musical appreciation, designed to develop an intimate knowledge of the masterpieces of symphonic and musico-dramatic composition.

I, II; (3). Open only to those students who have creditably passed in 3, 4. *Tu., Th., Sa., at 12.25.*

5, 6. *Harmony and Elementary Composition*

I, II; (3). Elective for qualified Sophomores, Juniors, and Seniors. Open only to those students who have made preliminary studies in the principles of musical notation and have had sufficient ear-training to enable them to recognize fundamental intervals. All candidates will be required to present the written permission of the instructor before registration can be granted. *Tu., Th., Sa., at 11.25.*

PHILOSOPHY ‡

Professors DELABARRE and EVERETT; Associate Professor JONES; Assistant Professor SELLEN.

1, 2. *Introduction to Philosophy*

A systematic outline of the principal problems of philosophy. *Professor JONES.*

I, II; (3). Elective for Sophomores, Juniors, and Seniors. *Tu., Th., Sa., at 9.25.*

3, 4. *Psychology and Ethics*

First semester: Psychology. A survey of the main facts and laws of mental life, aiming to provide a sound foundation for further acquaintance with this and allied subjects, for an improved judgment in dealing with many practical problems, and for understanding the psychological bases of philosophy. Second semester: Ethics. An introductory course dealing in a concrete way with the moral values of daily experience, and intended to aid the student in forming a practical philosophy of life. First semester, *Professor DELABARRE*; second semester, *Professor EVERETT.*

I, II; (3). Elective for Sophomores, Juniors, and Seniors. Either semester may be elected independently by Seniors. *M., W., F., at 9.25.*

5, 6. *Psychology, Intermediate Course*

A study of the fundamental principles on which a scientific system of psychology must be based; the nature and composition of consciousness, its relation to bodily processes, and its complete subjection to law. *Professor DELABARRE.*

I, II; (3). Elective for Juniors, Seniors, and Graduates who have credit for a course in Psychology.

‡ The required work in Philosophy must be completed not later than the end of the Junior year. The following courses will be accepted as meeting the requirement: 1, 2; 3, 4; 7, 8; 3, 10; 29, 30; and 9, 4 by permission of the instructor.

7, 8. *History of Philosophy*

The successive philosophical systems as revealing the logical development of European philosophy. The course also aims to exhibit the significant relations which philosophy has sustained to civilization, especially in its fundamental political, scientific, religious, and cultural elements. *Professor EVERETT.*

I, II; (3). Elective for Juniors, Seniors, and Graduates. *M., W., F., at 10.25.*

9. *Philosophy of Religion*

A constructive study of the nature of the religious consciousness, and of the ultimate problems of religious belief. *Professor EVERETT.*

I; (3). Elective for Juniors, Seniors, and Graduates who have credit for a year-course in Philosophy. By special permission of the instructor may be taken with 4 to satisfy the requirement of a year's work in Philosophy. *Tu., Th., Sa., at 9.25.*

29, 30. *History of Religion*

An outline study of the principal religions of the world with special emphasis on the beginning, implications, and significance of Christianity. *Professor SELLEN.*

I, II; (3). Elective for Juniors, Seniors, and Graduates. To count as the required work in Philosophy, both semesters must be taken. *Tu., Th., Sa., at 10.25.*

10. *Applications of Psychology*

Description of some of the important ways in which the principles of psychology are being practically applied to the problems of modern life. *Professor DELABARRE.*

II; (3). Elective for students who have credit for 3. May be taken with 3 to satisfy the requirement of a year's work in Philosophy. *M., W., F., at 9.25.*

11, 12. *Experimental Psychology, Introductory Laboratory Course*

Description of the main lines and results of experimental research; demonstrations by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement. *Professor DELABARRE.*

I, II; (3). Six hours of attendance. Elective for Juniors, Seniors, and Graduates who have credit for 3.

[13. *Logic*]

I; (3). Elective for Sophomores, Juniors, and Seniors. Not offered in 1923-24.

14, 15. *Seminary in Philosophy*

Subject for 1923-24: Hegel's Philosophy of religion. *Professor JONES.*
I, II; (3). Elective for Seniors and Graduates.

17, 18. *Psychology, Advanced Course*

A seminary for the discussion of important problems in psychology. The problems discussed will vary, and the course may be taken for two or more years. *Professor DELABARRE.*

I, II; (3). Elective for Seniors and Graduates who have credit for 5, 6.

19, 20. *Experimental Psychology, Advanced Laboratory Course*

The aim is to study further the problems of experimental psychology, and, whenever possible, to make original contributions to scientific knowledge. The problems investigated will vary, and the course may be taken for two or more years. *Professor DELABARRE.*

I, II; (1-6). Two to twelve hours of attendance. Prerequisite: Philosophy 11, 12. May be taken for more than six hours by Graduates.

21, 22. *Seminary in Philosophy*

A seminary course for the study of important problems. Subject for 1923-24: Contemporary philosophy. *Professor EVERETT.*

I, II; (3). Elective for Seniors and Graduates who have credit for a year-course in Philosophy. *W., 3 to 5.*

PHYSICS†

Professor BARUS; Associate Professor PALMER; Instructor: Mr. CHENEY; Assistant: Mr. BENNETT.

27, 28. *Elementary Course*

Designed for those who have had no previous training in physics. An introduction to the general principles of physical science with special reference to their bearing on human affairs. Lecture room demonstrations; text-book; recitations; and solution of simple problems. *Mr. CHENEY.*

I, II; (3). Elective for Undergraduates who have presented Algebra and Plane Geometry for admission. *M., W., F., at 10.25.*

† Students who intend to teach Physics should elect courses 1, 2; 3, 4; 5, 6. Those who intend to enter medical school should elect either 27, 28 and 29, 30, or 1, 2.

29, 30. Elementary Laboratory Course

A series of simple laboratory exercises designed to illustrate the general principles discussed in 27, 28. *Mr. CHENEY.*

I, II; (1). Three hours of attendance. Elective for Undergraduates who have credit for or taking 27, 28. Laboratory fee, \$7 a semester.

1, 2. General Physics

Designed for students who have had some previous training in physics or in mechanics. First semester: dynamics, molecular physics, acoustics, and magnetism. Second semester: electricity, heat, and optics. Lectures with experiments; recitations; solution of problems; laboratory exercises. *Professor PALMER.*

I, II; (4). Six hours of attendance. Required of candidates for the degree of Sc.B. Prerequisite: Physics for admission, and Mathematics 17, 18; 61, 62; or 63, 64. Laboratory fee, \$7 a semester. *M., W., F., at 9.25.*

3, 4. Intermediate Course

The more advanced parts of the subjects treated in 1, 2 and 27, 28. *Professor BARUS.*

I, II; (3). Prerequisite: Physics 1, 2 or 27, 28, and Mathematics 61, 62. *Tu., Th., Sa., at 10.25.*

5, 6. Experimental Physics

An introduction to the theory and practice of physical manipulation. Experimental study of physical phenomena selected to meet the needs of individual students. Written reports and solution of problems. *Professor PALMER.*

I, II; (3). Six hours of attendance. Prerequisite: Physics 1, 2 or 29, 30. Laboratory fee, \$9 a semester.

11, 12. Advanced Laboratory Course

Special problems and reference to original sources for methods of solution. *Professors BARUS and PALMER.*

I, II; (3 or 6). Six or twelve hours of attendance. Prerequisite: Physics 5, 6. Laboratory fee, \$9 a semester.

15, 16. Advanced Course

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnet-

ism, thermo-electrics, induction, Fresnel's optics, the electro-magnetic theory of light, thermal analytics, and thermodynamics. This course will also include applications of vector and harmonic analysis.
Professor BARUS.

I, II; (3). Elective for Juniors, Seniors, and Graduates who have credit for Mathematics 7, 8. The content of the course will vary at the option of the students.

21, 22. *Theory of Measurements*

Lectures and recitations on the theory and precision of measurements and on methods of taking, recording, and reducing observations. *Professor PALMER.*

I, II; (3). Prerequisite: Physics 1, 2, and Mathematics 7, 8 or 19, 20.

23, 24. *Precision Measurements in Photometry, Electricity, and Magnetism*

Professor PALMER.

I, II; (3). Six hours of attendance. Prerequisite: Physics 1, 2, and Mathematics 7, 8 or 19, 20. Laboratory fee, \$9 a semester.

ROMANCE LANGUAGES AND LITERATURES

Professor LANGDON; Associate Professors JOHNSON† and HUNKINS; Assistant Professors MASSEY, CAVICCHIA, and RAND; Instructors: Messrs. RUBIO and SCANLON, Dr. FREEMAN.

FRENCH

1, 2. *Elementary French, First Year*

Grammar, composition, dictation, conversation; translation of selections from modern authors into idiomatic English. *Professor HUNKINS and Dr. FREEMAN.*

I, II; (3). Elective for students who have not presented French for admission. *Division 1: M., W., F., at 8; Division 2: Tu., Th., Sa., at 8.*

3, 4. *Elementary French, Second Year*

Reading of easy modern French prose in the form of stories, plays, or

† On leave of absence during the academic year 1923-24.

historical or biographical sketches; review of grammar; composition and conversation based upon the texts read. *Professor RAND.*

I, II; (3). Elective for students who have credit for 1, 2 or who have presented elementary French (1 year) for admission. *Tu., Th., Sa., at 8.*

5, 6. *Intermediate French*

Reading of modern and classical authors; review of grammar; composition and conversation based upon the texts read; dictation. *Professors MASSEY and RAND, Dr. FREEMAN.*

I, II; (3). Elective for students who have credit for 3, 4 or who have presented elementary French (2 years) for admission. *Divisions 1 and 3: Tu., Th., Sa., at 9.25; Division 2: M., W., F., at 9.25.*

7, 8. *Advanced French*

An introduction to classical and modern French literature; composition; conversation based on the texts read; dictation. *Professors HUNKINS, MASSEY, and RAND.*

I, II; (3). Elective for students who have credit for 5, 6 or who have presented intermediate French for admission. *Divisions 1 and 3: M., W., F., at 9.25; Division 2: Tu., Th., Sa., at 11.25; Division 4: M., W., F., at 12.25.*

[9, 10. *The Realistic School*]

I, II; (3). Elective for students who have credit for 7, 8 or who have presented four years of French for admission. Not offered in 1923-24.

11, 12. *The Romantic School*

The reading of authors from Chateaubriand and Victor Hugo to Balzac; abstracts, in French, of works read outside the class. The course will be conducted largely in French. *Professor HUNKINS.*

I, II; (3). Prerequisite: French 7, 8. *M., W., F., at 10.25.*

23, 24. *Practice in Writing and Speaking French*

Intended especially for those preparing to teach. Written and oral translations from English into French. Conversation; dictation; phonetics. *Professor MASSEY.*

I, II; (3). Prerequisite: French 7, 8. *Tu., Th., Sa., at 11.25.*

27, 28. *French Literature and Civilization*

An interpretation of French culture as seen in its literature, history, religion, and philosophy. *Professor LANGDON.*

I, II; (3). Prerequisite: French 5, 6. *Tu., Th., Sa., at 10.25.*

ITALIAN

1, 2. *Elementary Italian, First Year*

Grammar, composition, and reading of modern authors. *Professor CAVICCHIA.*

I, II; (3). Elective for students not presenting Italian for admission. *M., W., F., at 9.25.*

3, 4. *Elementary Italian, Second Year*

Reading of modern authors; review of grammar; composition; conversation. *Professor CAVICCHIA.*

I, II; (3). Elective for students who have credit for 1, 2 or who have presented elementary Italian (1 year) for admission. *Tu., Th., Sa., at 12.25.*

5, 6. *Intermediate Italian*

Reading of modern and classical selections; review of grammar; composition and conversation based on the texts read; dictation. *Professor CAVICCHIA.*

I, II; (3). Prerequisite: Italian 3, 4. *M., W., F., at 10.25.*

9, 10. *Dante in English*

A study of the whole of the *Divina Commedia* in English, in the light of modern thought and of other world-poems. *Professor LANGDON.*

I, II; (3). Elective for Juniors, Seniors, and Graduates. Students are advised to elect this course in their Senior year. *M., W., F., at 11.25.*

SPANISH

1, 2. *Elementary Spanish, First Year*

Grammar, conversation, composition, and reading of modern authors. *Professor CAVICCHIA, Messrs. SCANLON and RUBIO.*

I, II; (3). Elective for students not presenting Spanish for admission. *Division 1: Tu., Th., Sa., at 9.25; Divisions 2 and 5: M., W., F., at 10.25; Divisions 3 and 4: Tu., Th., Sa., at 11.25.*

3, 4. *Elementary Spanish, Second Year*

Reading of modern authors; review of grammar; composition; conversation. *Mr. SCANLON.*

I, II; (3). Elective for students who have credit for 1, 2 or who have presented elementary Spanish (1 year) for admission. *Division 1: M., W., F., at 11.25; Division 2: Tu., Th., Sa., at 12.25.*

5, 6. *Intermediate Spanish*

Reading of modern authors, with special attention to South America. Composition, conversation. *Mr. SCANLON.*

I, II; (3). Elective for students who have credit for 3, 4 or who have presented elementary Spanish (2 years) for admission. *M., W., F., at 10.25.*

[7, 8. *Advanced Spanish*]

I, II; (3). Elective for students who have credit for 5, 6 (25, 26) or who have presented intermediate Spanish for admission. Not offered in 1923-24.

9, 10. *Introduction to Spanish Literature*

An outline course in the history of Spanish Literature, from the beginning to 1923, with reading and study of the greater writers. Lectures and discussions in Spanish. *Mr. SCANLON.*

I, II; (3). Elective for students who have credit for 5, 6 or 7, 8, or who have presented intermediate Spanish for admission. *Tu., Th., Sa., at 10.25.*

SOCIAL AND POLITICAL SCIENCE†

Professor DEALEY; Assistant Professors DUNNING and BUCKLIN§; Instructors: Messrs. HUBBARD and KIRKPATRICK; Associate: Mr. BRIGHAM.

SOCIAL SCIENCE¶

1. *Social Science*‡

An introductory study of the main subjects considered in sociology, with illustrations based on social conditions in the United States. *Professor DEALEY.*

I and II; (3). Elective for Sophomores and Juniors. I: *Tu., Th., Sa., at 10.25;* II: *M., W., F., at 12.25.*

† Candidates for the degree of A.B. or Ph.B. are required to take in the Sophomore or Junior year a year-course in the departments of Economics or Social and Political Science. This requirement may be met by any two of the courses Social Science 1, Political Science 1, or Economics 1, or by Economics 1, 2.

‡ Candidates for the degree of Sc.B. are required to take in the Sophomore year Economics 1, 2. By permission of the Division of Engineering, they may substitute for Economics 2 either Political Science 1 or Social Science 1.

§ On leave of absence during the academic year 1923-24.

¶ The advanced courses in Social Science are elective for students who have credit for Social Science 1. Semester courses in this department may be elected independently unless otherwise stated.

2. *Modern Social Problems*

An analysis of the problems of poverty and crime; accompanied by study of the philosophy and methods of private and public agencies dealing with them. Lectures, assigned readings, individual observation and investigation. *Mr. KIRKPATRICK.*

I; (3). Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sa., at 10.25.*

3. *Modern Social Problems*

An analysis of the problems of health, immigration, and child welfare; accompanied by a study of typical community activities in the field of social reform; class visits to institutions, and descriptive talks by workers in local organizations. *Mr. KIRKPATRICK.*

II; (3). Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sa., at 10.25.*

5, 6. *Social Origins and Institutions*

A survey of the fundamental social institutions, and a study of the development and trend of the most important of these. *Professor DEALEY.*

I, II; (3). Elective for Graduates. *Hours by arrangement.*

[7. *Sociology and Education*]

II; (3). Preceded in the first semester by 5. Elective for Seniors, Graduates, and candidates for the degree of Ed.B. Not offered in 1923-24.

[10. *The Social Survey*]

I; (3). Elective for Juniors, Seniors, and Graduates. Not offered in 1923-24.

11, 12. *Seminary in Sociology*

Social teachings in their development and application. *Professor DEALEY.*

I, II; (3). Elective for approved Seniors, Graduates, and candidates for the degree of Ed.B. *M., Th., 4.30 to 6.*

13, 14. *Social Research, Investigation, and Field Work*

Study and practice in methods of gathering, interpreting, and presenting data of social problems and movements; investigation of agencies and institutions dealing with social problems; field work with the coöperation of selected local agencies and institutions, accom-

panied by a study of the principles of case work. *Professor DEALEY, Messrs. HUBBARD and KIRKPATRICK.*

I, II; (3). Six to eight hours of research or field work and one hour of classroom discussion. Must be preceded or accompanied by Social Science 2, 3. Elective for Graduates and for a limited number of approved Juniors and Seniors. *Hours to be arranged with the instructor.*

15. *The Science of Sociology*

Its fundamental teachings; principles underlying the development of society and its great social institutions; applications of these principles to the theory of social progress. A survey of the constructive trend in modern civilization. *Mr. KIRKPATRICK.*

II; (3). Preceded in the first semester by 16. Elective for Juniors, Seniors, and Graduates. *M., W., F., at 9.25.*

16. *Social Psychology*

Psychological principles underlying social order and progress; social suggestion and imitation; the psychology of social groups; applications of the principles of social psychology to modern social problems. *Mr. KIRKPATRICK.*

I; (3). Followed in the second semester by 15. Elective for Juniors, Seniors, and Graduates. *M., W., F., at 9.25.*

POLITICAL SCIENCE‡

1. *Political Science*

An introductory study of the main subjects considered in Political Science, with illustrations based on the local and national governments of the United States. *Mr. HUBBARD.*

I and II; (3). Elective for Sophomores and Juniors; see also, Social Science 1. I: *M., W., F., at 12.25*; II: *Tu., Th., Sa., at 10.25.*

2, 12. *Governments and Politics of Foreign States*

A study of comparative government and political development. Problems of world-politics. Special attention is given to political geography and to the many political reorganizations resulting from the World War. *Professor DUNNING.*

I, II; (3). Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sa., at 10.25.*

‡ The advanced courses in Political Science are elective for students who have credit for 1. Semester courses may be elected independently unless otherwise stated.

3, 4. *Government and Politics of the United States*

First semester: national government, its organization, powers, and methods; current political issues. Second semester: municipal governments; framework and activities of European and American municipalities. *Professor DUNNING.*

I, II; (3). Elective for Juniors, Seniors, and Graduates. *M., W., F., at 9.25.*

[5. *Business Law*[†]]

I; (3). Followed in the second semester by 8. Elective for Juniors, Seniors, and Graduates. Not offered in 1923-24.

[8. *Constitutional Law*]

II; (3). Preceded in the first semester by 5. Elective for Juniors, Seniors, and Graduates. Not offered in 1923-24.

11. *Corporation Law*

A study of the legal structure, functions, and powers of corporations and partnerships. The course emphasizes the legal relations of the component parts of quasi-public and private corporations to one another and the public, and gives especial attention to the laws and agencies of regulation and control. *Professor DUNNING.*

I; (3). Followed in the second semester by 7. Alternates every other year with 5. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sa., at 9.25.*

7. *Jurisprudence*

An analysis of the fundamental concepts of the science of law. The historical development of Roman and English legal systems. *Professor DUNNING.*

II; (3). Preceded in the first semester by 11. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sa., at 9.25.*

6. *International Law and Diplomacy*

A study of international relations. National policy as shown in diplomatic intercourse and in hostilities to which the United States has been a party. International rights and obligations of citizens and resident aliens. *Professor DUNNING.*

I; (3). Followed in the second semester by 16. Elective for Juniors, Seniors, and Graduates. *M., W., F., at 11.25.*

[†] Students planning to become candidates for the degree of M.B.A. are required to take this course. See note under Courses of Instruction offered by the Department of Economics.

16. *American Policies*

Development and present situation of American domestic and international policies. Especial attention given to policies in respect to Europe, Latin-America, and the Far East. *Professor DUNNING.*

II; (3). Preceded in the first semester by 6. Elective for Juniors, Seniors, and Graduates. *M., W., F., at 11.25.*

9, 10. *Political Theories*

A study of ancient and modern political theories. Modern democratic principles. Present theories in respect to the state; its origin, forms of government, and sovereignty. *Professor DEALEY.*

I, II; (3). Elective for approved Seniors and Graduates. *Hours by arrangement.*

13, 14. *Investigation of Special Topics*

Intended to train students in methods of gathering and presenting data in the study of political problems. In connection with this course, work in comparative legislation may be taken under the direction of the Legislative Reference Bureau of the State Library. *Professor DEALEY and Mr. BRIGHAM.*

I, II; (3). Six to nine hours of investigation and class-room work. Elective for Graduates, and for a limited number of approved Seniors. *Hours by arrangement.*

PHYSICAL TRAINING ‡

Professor MARVEL; Assistant Professor SWAIN; Assistants: Messrs. BROWNING and HERRICK.

From Thanksgiving to the Spring Recess, all first and second year men are required to attend gymnasium exercises three times a week. The particular course will be assigned by the department.

Setting-up Exercises and Calisthenics

The work also includes the use of wooden and iron dumb-bells, indian clubs, bar bells, wands, and floor exercises. *Mr. BROWNING.*

Two divisions.

Swimming

Elementary, advanced, and competitive. Life saving, resuscitation, and games. *Professor SWAIN.*

‡ No charge is made for instruction in any branch of gymnastics or athletics.

Three hours of attendance a week. Required during the fall and spring of all first year men who are unable to pass the test; required during the entire year of all upper-classmen who have not satisfactorily met the swimming requirement. Advanced swimming is a winter-elective for Sophomores, Juniors, and Seniors, who have passed their swimming tests.

Boxing

Mass and Shadow Boxing similar to that taught in the Army and Navy. After the students become familiar with the blows, blocks, parries, and foot work they are paired off against each other. Accuracy and correct form are insisted upon. Boxing for points rather than hard blows is the aim. *Mr. ———.*

Three divisions.

Wrestling

Elementary, advanced, and competitive. *Mr. HERRICK.*

Three divisions.

Track Athletics

Elementary, advanced, and competitive. *Mr. POWERS.*

Three divisions.

Heavy Gymnastics

Elementary and advanced. *Mr. BROWNING.*

Handball

Mr. BROWNING.

ORIENTATION LECTURES

Lectures upon the scope and aims of college education by administrative officers and members of the Faculty.

The object of the course is to explain to the new students the organization and administrative system of the University; to instruct them concerning the general content of the academic curriculum; to describe the libraries, laboratories, and other facilities for study; to offer general advice regarding methods of study and the preservation of health; and to discuss the relation of the social organizations to the University and the students.

I. Required of all first year students. *Tu. at 2.*

LIBRARIES, LABORATORIES, AND MUSEUMS

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THE UNIVERSITY LIBRARY

HARRY LYMAN KOOPMAN, A.M., LITT.D., *Librarian*

FRANCIS K. W. DRURY, A.M., B.L.S., *Assistant Librarian*

THE libraries of the University contain three hundred and twenty thousand volumes. The MAIN LIBRARY is constantly increased with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture. It includes nine special libraries: the Harris Collection of American Poetry, the largest collection in the world devoted to the subject; the Rider Collection of Rhode Island History; the Wheaton Collection of International Law; the George Earl Church Collection on the geography, history, and development of South America; the Corthell Engineering Library; the Chambers Dante Collection; the private library of the late Professor Lester F. Ward, relating especially to sociology and paleobotany; the private library of English Literature of Professor Hammond Lamont; and the Walter C. Hamm Collection of Newspaper Clippings, some 200,000 in number, chiefly in the field of politics and sociology. A special collection known as the STUDENTS' LIBRARY, consisting of some seventeen thousand volumes, has been selected for the use of undergraduates. To this all students have free access.

Early in the academic year, after a lecture to the Freshmen on the use of the Library, the Assistant Librarian meets groups of the class in the reading room and gives them practical illustrations of the use of the reference books and the catalogue.

DEPARTMENT LIBRARIES are maintained as branches of the Main Library for practically every department of instruction, and in these the students will find special books and periodicals called for by the subject of study and research.

THE JOHN CARTER BROWN LIBRARY possesses more than twenty-five thousand volumes in print and in manuscript relating to North and South America during the Colonial period, including rare and unique maps. The library may be used by properly qualified students or investigators.

OTHER PROVIDENCE LIBRARIES. The seven collections of books named below comprise, with the University Library, over seven hundred thousand volumes in the city at the service of the students.

THE PROVIDENCE PUBLIC LIBRARY offers to all students of Brown University, upon the same conditions as to other residents of the city, the use of its collection of more than two hundred and eighty-one thousand volumes.

THE LIBRARY OF THE PROVIDENCE ATHENAEUM is a collection of general literature numbering one hundred thousand volumes. Professors or teachers may become annual subscribers on the payment of five dollars in advance, and any duly accredited student of Brown University may become a subscriber for three months on the payment of two dollars; but the rights of such subscribers are personal only and do not extend to their families.

THE LIBRARY OF THE RHODE ISLAND HISTORICAL SOCIETY is next to the old University Library Building. It comprises forty thousand bound volumes, fifty thousand pamphlets, and two hundred thousand manuscripts, and by the courtesy of the society is accessible, free of charge, to members of the University.

THE ANNMARY BROWN MEMORIAL, on Brown Street south of the University, contains a collection—one of the most representative in the world—of books from the first European presses showing the progress of printing through the first half century of the existence of the art, from about 1450 to 1500. The Memorial also contains a choice collection of paintings by early masters, and a gallery of paintings representative of more modern schools. The building is open to the public Tuesday through Friday of each week, from 10 a.m. to 4 p.m.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY comprises about twenty-seven thousand volumes upon medical science, including current medical periodicals. Upon application students may, without cost, enjoy its privileges.

THE STATE LAW LIBRARY is a collection of some forty-five thousand volumes, wholly devoted to law. Any person may use the books within the library rooms. Students wishing to use the library are requested to introduce themselves to the librarian.

THE STATE LIBRARY contains official documents of the United States and of the several states, and general works pertaining to history, political science, and social science. The Legislative Reference Bureau conducted by the State Library directs the work of students who are investigating topics in comparative legislation.

LABORATORIES

THE UNIVERSITY is supplied with the necessary laboratories to conduct experiments and research in the various scientific and technical subjects. Special buildings and rooms are available for astronomical, biological, botanical,

chemical, geological, physical, and psychological investigations. The Jesse Metcalf Chemical Laboratory was dedicated October 10, 1923. The Engineering courses have equipment for the various subjects in the materials, the highway engineering, the steam and gas engineering, the hydraulic and the electrical laboratories, together with the engineering shops.

MUSEUMS

THE HERBARIUM in Maxcy Hall contains upwards of eighty thousand specimens from all parts of the world, but mainly from America. The genus *Carex* is particularly well represented, as it was the object of much special study by Colonel S. T. Olney, the founder of the Herbarium.

THE GEOLOGICAL MUSEUM in Rhode Island Hall contains illustrative specimens for work in general geology, mineralogy, and petrography.

The University possesses a large collection of valuable portraits, which are hung in Sayles Hall. A series of paintings illustrating early American history, by Frank O. Small, is hung in the Faculty Room in the Administration Building.

All the collections are open to the public.

LECTURESHIPS

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THE MARSHALL WOODS LECTURESHIP was established in 1871 to provide lectures on "the Fine Arts and their application to the Mechanic Arts or Industrial Pursuits." Later the scope of the lectures was made much broader. In 1919 the income became available for the first time, and the first series was delivered during the academic year 1919-20.

The series for the academic year 1922-23 was as follows:

HENRY MORGENTHAU

Conditions in the Near East

EDWIN GRANT CONKLIN

The Revolt against Darwinism

JAMES HARVEY ROBINSON

Making Knowledge Human

SVEN HEDIN

Adventure and Exploration in Tibet

HENRY SEIDEL CANBY

Literary Criticism

DAYTON CLARENCE MILLER

Visible Sound

THE CHARLES K. COLVER LECTURESHIP was established in 1915 by Jesse L. Rosenberger and his wife in honor of her father, Charles Kendrick Colver, of the class of 1842, to provide lectures on subjects of particular importance, by lecturers eminent in scholarship or of other marked qualifications. It is designed that the lectures be distinctive and valuable contributions to human knowledge. The income may be used for the publication of the lectures.

The lectures have been delivered at the University each year and have been subsequently published. The series for the academic year 1922-23 was:

CHARLES HOMER HASKINS

The Rise of Universities

THE JOHN HOWARD APPLETON LECTURESHIP was established in 1923 by friends and former students of Professor Appleton in appreciation of his service of over fifty years as teacher and professor of chemistry in Brown University, to provide special annual lectures on pure or applied chemistry, the lecturers to be selected by the Department of Chemistry. It is expected that the first lectures will be given during the academic year 1923-24.

UNIVERSITY EXTENSION

THE University offers each semester a number of extension courses, given at the University and open to all who desire to register.

Single Courses—each of ten lectures or lessons, one each week—are designed primarily for the general public. Those who wish to pursue these courses for study may register as students. At the close of each exercise the instructor meets these students for discussions, assignment of work, etc.

Double Courses—each of about fifteen lectures or lessons, one each week for a double period—are designed primarily for those who wish to register for study. They furnish an opportunity for more intensive work and more rapid progress than the *single courses*.

A *single course* is accepted by the University as the equivalent of a one-hour course for one semester; a *double course* is accepted as the equivalent of a two-hour course.

A "Certificate in University Extension" will be awarded to those who successfully complete in extension courses the equivalent of sixty semester hours, and they will be enrolled as "Associates in University Extension."

Type B candidates for the degree of Bachelor of Education may receive a maximum credit of thirty semester hours for courses in University Extension, provided they are taken in accordance with the regulations of the School of Education. See page 66. Credit, however, is not given toward the degree of Bachelor of Arts or Bachelor of Philosophy, or toward advanced degrees.

Applications for extension courses should be sent to Professor Walter Ballou Jacobs, Director of University Extension, 81 Waterman Street. The application should give the full name and address of the applicant, and the course or courses desired. On receipt of the fee, a card of admission is issued which must be shown at the lectures in each course. The fee for single courses is five dollars. For those who register for credit there is an additional fee of one dollar. This fee is due on registration and must be paid not later than the third lecture in each course. The fee for double courses is ten dollars. Checks should be made payable to Brown University. Fees should be sent with the application if possible; if not, payment may be made at the Comptroller's office, University Hall.

In the November, 1922, series 40 courses were given with a total registration of 1455. In the February, 1923, series 43 courses were given with a total registration of 1327.

PROVISIONS FOR THE PERSONAL WELFARE OF THE STUDENTS



PHYSICAL TRAINING

FROM the close of the Thanksgiving recess to the beginning of the spring recess, all first and second year students are required to attend gymnasium exercises three times a week. For other members of the University voluntary classes are provided.

During the periods before Thanksgiving and after the spring recess, or until such time as a satisfactory test is passed, swimming is required three hours a week of all Freshmen and of all other students who have not previously passed the test, unless excused by the University Physician.

All branches of athletics are under the management of the Brown University Athletic Association, and are controlled by a board of undergraduates. The Faculty Committee on Student Organizations has general oversight of the deportment and scholarship of the members of the various teams.

MEDICAL CARE

Arrangements have been made for the University Physician, Dr. Raymond G. Bugbee, to hold a special office hour for students, from 1 to 2 p.m. daily except Sundays, at 223 Thayer Street, and students are urged to visit him during this hour at the first sign of illness.

In case of illness confining a student to his room, in a dormitory, a fraternity house, or a boarding house, the Physician will make one call at the expense of the University; during Dr. Bugbee's special office hour, the first visit is at the expense of the University; further treatment is at the expense of the student.

THE CHARLES SMITH BRADLEY FREE BED and THE GEORGE IDE CHACE FREE BED at the Rhode Island Hospital are accessible to students, by the appointment of the President of the University, and students are always liberally cared for free of charge by the visiting staff of the hospital.

Students desiring private rooms or special attention will be expected to pay the charges of the hospital and of the attending physician.

BROWN CHRISTIAN ASSOCIATION AND THE BROWN UNION

The chief aim of the Brown Union, which occupies Rockefeller Hall, is to encourage a vigorous and healthy social life in the University and to unite under one roof, with competent direction, the various activities of the students. Mem-

bership is open to Alumni and Faculty, and includes all of the undergraduates. The Board of Management consists of the President of the Union, who must be a member of the Senior class, and four members appointed by the Corporation. The building contains offices for the various student organizations; rooms for student meetings; and the usual conveniences of a social club. Entertainments are given on Tuesday evenings from time to time.

The Brown Christian Association has its headquarters in Rockefeller Hall. Membership is open to all men connected with the University. Among its activities are frequent meetings for the discussion of religious, philanthropic, vocational, and educational problems and for devotional purposes; the arrangement of conferences and interviews with visiting speakers; coöperation with the churches in religious and social work.

All communications relative to the work of the Christian Association or the Union should be sent to George J. Heidt, secretary of both organizations. He is also chairman of the Employment Bureau which aids in securing employment for undergraduates by business houses and residents of the city. Students desiring work of any kind should apply to him.

The University operates the dining room and grill room located in Rockefeller Hall (cafeteria service).

RELIGIOUS SERVICES

A chapel service is held in Sayles Hall every week day at 9 a.m. The President usually conducts the exercises. Attendance is required of undergraduates.

The University arranges to have a special series of addresses and conferences on religious subjects and life work during each college year.

ARRANGEMENTS WITH OTHER INSTITUTIONS

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RHODE ISLAND SCHOOL OF DESIGN

CERTAIN courses at this School are open to students of the University and are counted toward a University degree. See page 69. Students from the School are admitted to any classes in Brown University for which they are found to be prepared.

AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS

The establishment at this School of a fund of over five thousand dollars, known as "The Albert Harkness Fund for the Benefit of Brown University," secures the privilege of free tuition in the School for all adequately prepared graduates of the University. Information regarding the School may be obtained from Professor Allinson or Professor Smith, members of the Managing Committee of the School.

NEWTON THEOLOGICAL INSTITUTION

This Institution has entered into an agreement with the University whereby certain courses, such as Biblical Literature 1-4, 11-14, 15-18, 27, 28, 30, are recognized as having equivalent in the Theological discipline. It is possible for students who have credit for these courses, with a grade not below *C*, to complete the Seminary course in two years, by carrying some extra hours.

THE TRAINING OF TEACHERS

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ARRANGEMENTS WITH THE STATE OF RHODE ISLAND

THE Board of Education of the State of Rhode Island under act of the Legislature has entered into coöperation with Brown University for the professional instruction of college graduates who desire to become teachers in high schools, principals of high schools or elementary schools, or superintendents, and of those who already hold such positions. For this purpose the state appropriates annually five thousand dollars. This sum is expended in Scholarships in Education covering full tuition for a year of graduate work for the degree of Master of Arts. Scholarships are also granted for less than a full year of work. The courses must be approved by the head of the Department of Education. Appointment to these scholarships is made by the State Board of Education. Candidates must conform to the requirements for graduate students regularly fixed by the University.

ARRANGEMENTS WITH THE CITY OF PROVIDENCE

The School Committee of the City of Providence, by special agreement, appoints a number of student-teachers in the Providence High Schools, from graduates of Brown University or of other institutions of equal rank, who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type are occupied in the schools each day for somewhat more than half the usual school session, and receive a salary of eight hundred dollars a year from the city. Those of the second type teach and observe about five hours a week, and receive no remuneration from the city. They have considerably more freedom in the choice of subjects and of hours than those of the first type. An opportunity is thus afforded students to gain at the same time a knowledge of the theory of education and experience in the art of teaching. In appointing regular teachers of the lowest grade in the Providence High Schools, preference is given to those who have completed this course of training. In this respect student-teachers of the second type have the same status before the Committee as those of the first type. The practice teaching in the Providence High Schools is done under the following Supervising Teachers for the academic year 1923-24 :

Leila B. Carter, Ph.B., *English*
Franklin R. Cushman, A.M., *History*
Emma H. Dahlgren, A.M., *English*
Charles E. Dennis, Ph.D., *Latin*
Arthur J. Dows, A.M., *History*

Richard O. Dummer, A.M., *Physics, Mathematics*

Mrs. Harriet P. Fuller, A.M., *Latin*

M. Isabelle Hall, A.M., *English*

Beatrice F. Kohlberg, A.M., *History*

Linda M. Lowell, Ph.B., *English*

Jeannette B. Moffitt, A.M., *History*

T. Franklin Walsh, Ph.D., *Spanish*

Bessie S. Warner, A.M., *Latin*

George W. Watson, *Physical Training*

A limited number of Seniors and Graduates who are pursuing courses in Education are allowed to observe and teach in the Grammar Schools of the city in a way similar to that provided for student-teachers of the second type in the High Schools. Student-teachers are also assigned practice teaching in other schools in and near Providence.

Student-teachers of the first type are also in the High Schools of Central Falls and Cranston. The supervising teachers in these schools for the academic year 1923-24 are:

Edith E. Chaffee, A.B., *English*

Anne W. Carpenter, A.M., *English*

UNIVERSITY FEES

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TUITION. \$150 a semester; \$300 a year. This applies to all candidates for degrees, and all special students, undergraduate or graduate, whether previously in residence or new students.

GRADUATION FEES. For A.B., Ph.B., Sc.B., or B.E., \$10; for A.M., Sc.M., or M.B.A., \$15; for Ph.D. or D.P.H., \$25.

TOTAL PAYMENTS FOR DEGREES. All candidates for degrees (undergraduate or graduate) must pay the full amount regularly required for such degree; except that candidates receiving college credit on the basis of work done at other institutions, or of examinations for advanced standing, will not be charged for work so credited.

EXTRA COURSES. Students taking extra courses, either to make up deficiencies, or as voluntary work, must pay extra tuition at the rate of \$15 per semester for each three hour course so taken; except that students completing their degree work in less than the regular time must pay at the rate of \$30 per semester for extras counted toward their degree, so that their total payments shall not be less than the amount regularly required for the degree.

SPECIAL STUDENTS (undergraduate). Students taking only one or two courses must pay tuition at the rate of \$45 per semester for each three hour course. Students taking more than two courses must pay at the regular rate of \$30 per semester for each three hour course.

GRADUATE STUDENTS. Students taking less than the regular amount must pay at the regular rate of \$30 per semester for each three hour course.

LABORATORY FEES. In addition to the fees mentioned above, charges are made for laboratory courses, covering the cost of ordinary supplies; special supplies and breakage are charged extra. Regular laboratory fees are as follows:

Biology: \$7 a semester for 1, 2; 3, 4; 5, 6; 7, 8; 9, 10; 12; 13, 14; 16; 17, 18; 23, 24; 27, 28; 35, 36.

Botany: \$2.50 a semester for 1, 2; 9, 10; 20; 31, 32; \$7 a semester (for each three hours of credit) for 3, 4; 5, 6; 11, 12; 13, 14; fee for 7, 8 depends upon the nature of the work taken.

Chemistry: \$7 a semester for 1, 2; 15, 16; 27, 28; 51, 52; \$11 a semester for 3, 4; 7, 8; 9; 12; 23, 24; 31, 32; 54; \$11 a semester (for each three hours of credit) for 25, 26; \$20 a semester for 53; \$22 a semester for 5, 6; 21, 22.

Civil Engineering: \$4 a semester for 31, 32.

Electrical Engineering: \$4 for 53; 54; \$2 for 51; 60.

Engineering: \$2 for 1; 5; \$4 a semester for 11, 12; 13, 14; \$3 for 15.

Geology: \$2.50 a semester for 1; 2; 4; \$5 a semester for 9, 10.

Mechanical Engineering: Fee for 82 depends on the nature of the work taken.

Physics: \$7 a semester for 1, 2; 29, 30; \$9 a semester for 5, 6; 11, 12; 23, 24.

SPECIAL EXAMINATIONS. A fee of \$3 is charged for each special examination.

REGISTRATION FEES. A fee of \$3 is charged for late registration or a change in registration. See page 51.

ENTRANCE EXAMINATIONS. A registration fee of \$5 is charged for entrance examinations.

DEPOSIT. At the beginning of each semester students taking certain laboratory courses must, in addition to the payments of the above amounts, make a deposit toward charges for breakage during the semester.

DORMITORY ACCOMMODATIONS

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IN the University dormitories there are one hundred and twenty-eight single rooms and forty-nine suites, none of them furnished. A table showing the rent and location of the dormitory rooms may be obtained from the Registrar. The prices there given, ranging from \$128 to \$450, include rent, heat, and service for the college year; an additional charge is made for lighting. For the year beginning September, 1923, rents will be increased approximately twenty per cent.

Each student renting a room must sign a contract, on which surety may be demanded, binding him to pay or cause to be paid the rent of the room through the entire year. Not more than two students are allowed regularly to occupy a room or suite. No sub-letting of rooms will be permitted. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

When the University holds full contracts for a room, the tenant or tenants may admit to the use of the room in the daytime not more than two students. The names of such sub-tenants must be reported to the Comptroller as soon as the arrangement is made.

All rooms not assigned for 1924-25 before May 2, 1924, will be disposed of at a drawing on May 16 at 4 p.m. Men intending to enter college in September can arrange to be represented at the drawing by notifying the Registrar in advance.

The University has control of about one hundred rooms outside the campus. A student who is unable to obtain accommodations in the dormitories may engage an outside room by applying to the Registrar. A contract will be required.

PAYMENT OF UNIVERSITY BILLS

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BEFORE registration, at the beginning of each semester, every student must pay at the Comptroller's Office, the sum of twenty-five dollars on account of his bill for the semester.

As soon as possible after the beginning of each semester a complete bill will be sent to each student at his college address (unless otherwise requested), and students will be held responsible for college addresses as filed by them. This bill will include the semester charges for tuition, room rent, laboratory fees, and any special fees, including deposits. The twenty-five dollar payment made before registration will be credited. The amount of scholarship aid, if any, will be credited when the scholarship warrant is presented at the Comptroller's Office. The bill should be paid before 4 p.m. on the thirtieth day of the semester. A student whose bill is not paid at this time will be charged a fee of \$3 for each delinquency.

Students who are employed by the University must pay their bills without reference to the amount to be received for such service. Payment for service will be made by check at the middle and at the end of each semester.

Candidates for graduation in any year must pay all graduation fees with the bill for the second semester of that year.

Bills for tuition and other charges are subject to no deduction after the first twenty days of the semester, unless by special vote of the Advisory and Executive Committee.

ESTIMATE OF ANNUAL EXPENSES

The following is an approximate estimate of the annual expenses of a student who occupies a dormitory room (with a room-mate). It does not include the graduation fee of \$10 in the fourth year, nor outlay for clothes and traveling or other strictly personal expenses.

	<i>Lowest</i>	<i>Moderate</i>	<i>Liberal</i>
<i>Tuition</i>	\$300.00	\$300.00	\$300.00
<i>Room rent, including heat and service</i>	64.00	75.00	225.00
<i>Board (36 weeks)</i>	216.00	252.00	324.00
<i>Textbooks and laboratory expenses</i>	15.00	25.00	40.00
<i>Total</i>	<u>\$595.00</u>	<u>\$652.00</u>	<u>\$889.00</u>

FELLOWSHIPS, SCHOLARSHIPS, AND FINANCIAL AID

THE aid which Brown University gives to students is of three kinds: fellowships and scholarships; loans; payment in cash for services rendered. The awards from the scholarship and aid funds are made under the following conditions: an applicant must be of good moral character; he must be in need of financial assistance; he must have been admitted without conditions to the Freshman class or to advanced standing, as a candidate for a degree. The scholarship will be withdrawn from a recipient who is placed under college discipline or who fails to maintain creditable standing in his studies (a grade of *C* in all studies is expected).

The unit of scholarship aid is regarded as \$50 a semester, and Freshmen who receive scholarships are awarded that sum at the outset. Students of marked excellence in college work and who receive scholarships are, however, awarded from \$75 to \$150 a semester.

The administration of the scholarship and loan funds is in the hands of a committee of the Faculty, annually appointed by the Corporation. Applications for scholarships for a given academic year should be filed with the Secretary of the Committee on Scholarships as soon as possible after May 1. The Committee will take action early in June on all applications received before June 1. Action on late applications is generally taken as soon as all the requisite information is received, so long as funds are available, but between August 1 and the opening of college no awards are to be expected.

The President has charge of the administration of fellowships; service appointments are in charge of the Committee on Student Service.

FELLOWSHIP FUNDS

THE GRAND ARMY OF THE REPUBLIC FELLOWSHIP. The income of a fund of ten thousand dollars given by the Grand Army of the Republic, Department of Rhode Island, is annually awarded to a graduate of Brown University, of acknowledged excellence in scholarship and character. The recipient must be enrolled as a candidate for the degree of Doctor of Philosophy or have obtained that degree, must reside at Brown University, and must devote himself exclusively to advanced liberal study. Appointments are made by the President of the University, subject to the approval of the Board of Fellows. Descendants of Union Veterans of the Civil War are always to be preferred when the other qualifications of candidates are equal. Applica-

tions must be made on blanks furnished by the Dean of the Graduate Department, and must be in the hands of the President not later than April 15. The Grand Army of the Republic Fellow for 1923-24 is

JAMES DAVENPORT BRYDEN, PH.B.

THE OLIVER CROMWELL GORTON ARNOLD BIOLOGICAL FELLOWSHIP. This is a fund of ten thousand dollars given by Dr. Oliver Henry Arnold in memory of his father. The income, or any part of it, is awarded annually by the President and the head of the Biological Department, for post-graduate work, to any student, either male or female, who is a graduate of any collegiate institution of recognized standing and who has shown during his or her college course great diligence, talent, and marked ability in biological work. For 1923-24 the fellowship was awarded to

OLIN EVERETT NELSON, A.M.

THE MORGAN EDWARDS FELLOWSHIP. A fund of ten thousand dollars given by the Philadelphia alumni of Brown University. Whenever the income from this fund shall amount to one thousand dollars, it may be awarded by the President and Faculty of the University to an alumnus of not more than ten years' standing, for the pursuit of original research in any department of knowledge approved by the President and Faculty. The work may be carried on in any part of the world where it seems that the best facilities exist for the study of the subject selected. Applications for this fellowship should be addressed to the President of the University, from whom further details may be obtained. For 1923-24 no award was made.

THE EMMA JOSEPHINE AYER ARNOLD ARCHAEOLOGICAL FELLOWSHIP. A fund of ten thousand dollars given by Dr. Oliver Henry Arnold in memory of his wife. It is primarily for the Women's College (see page 248), but if no graduate of the Women's College fulfils the conditions, the income of this fund may be paid, with the consent of the Dean of the Women's College, for one year, to some male student fulfilling the conditions. The candidate must be approved by the President of the University and the professors of the Greek and Latin Departments. For 1923-24 this fellowship was awarded to

MIRIAM AMY BANKS, PH.B.

THE DU PONT FELLOWSHIP. The sum of seven hundred and fifty dollars given by E. I. du Pont de Nemours and Company, to be awarded for graduate research in chemistry. It is hoped that the fellowship will be continued from year to year. For 1923-24 this fellowship was awarded to

PHILIP CARL SCHERER, PH.B., SC.M.

THE JESSE METCALF FELLOWSHIPS. The sum of fifty thousand dollars given in 1923 by Jesse H. Metcalf, in memory of his father, to be used to provide assistance to post-graduate students who shall have shown special promise and ability in chemical studies. The award is to be made by the President upon recommendation of the Dean of the Graduate Department and the head of the Department of Chemistry.

TEACHING FELLOWSHIPS. In addition to the foregoing a number of Teaching Fellowships have been established, information regarding which will be furnished by the President.

SCHOLARSHIPS

With the exceptions noted below, the scholarships bear the names of their founders. The income is awarded annually according to the conditions attaching to each fund.

There are the following funds of more than one thousand dollars each:

THE TWO GEORGE J. SHERMAN SCHOLARSHIPS, paid from the income of a fund of twenty-five hundred and sixty-five dollars.

THE BARTLETT SCHOLARSHIP of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett.

THE GLOVER SCHOLARSHIP of nearly ten thousand dollars, founded by Henry R. Glover.

THE ANNIE E. WATERS SCHOLARSHIP of five thousand dollars.

THE REBECCA A. WHEELER SCHOLARSHIP of over sixteen hundred dollars.

THE SCHOLARSHIP OF THE CLASS OF 1838 of thirty-eight hundred dollars.

THE JOSEPH CHARLES HARTSHORN SCHOLARSHIP of two thousand dollars.

THE TWO BANIGAN SCHOLARSHIPS of three thousand dollars each, founded by Joseph Banigan.

THE GEORGE IDE CHACE SCHOLARSHIP of five thousand dollars.

THE ABBY WHEATON CHACE SCHOLARSHIP of four thousand dollars, also founded by Professor George Ide Chace.

THE JOHN L. LINCOLN SCHOLARSHIP of twenty-five hundred dollars, founded by Abby G. Beckwith.

THE TRUMAN BECKWITH SCHOLARSHIP of twenty-five hundred dollars, founded by Abby G. Beckwith.

THE THAYER SCHOLARSHIP, founded by Edward C. Thayer.

THE TWO WALTER G. WEBSTER SCHOLARSHIPS

THE S. W. MARSTON SCHOLARSHIP of five thousand dollars, founded by Edgar L. Marston.

FELLOWSHIPS, SCHOLARSHIPS, AND FINANCIAL AID 155

THE THREE E. L. MARSTON SCHOLARSHIPS of five thousand dollars each.

THE EATON SCHOLARSHIP of two thousand dollars, founded by Mrs. Caroline B. Eaton.

THE ALEXANDER FARNUM SCHOLARSHIP of two thousand dollars, founded by the Rev. Augustus Woodbury.

THE ALBERT HARKNESS SCHOLARSHIP of three thousand dollars.

A FRIEND'S SCHOLARSHIP of five thousand dollars.

THE ELLEN READ NEWELL SCHOLARSHIP of three thousand dollars, founded by George W. Newell.

THE FRED HOMER WILLIAMS SCHOLARSHIP of fifteen hundred dollars.

THE GEORGE WOODLEY HOGG SCHOLARSHIP of five thousand dollars, in memory of George Woodley Hogg, of the class of 1894.

THE DAVID W. HOYT SCHOLARSHIP of twenty-seven hundred dollars, founded by the Alumni Association of the Providence English High School.

THE CLASS OF 1905 SCHOLARSHIP of fifteen hundred dollars.

THE JACOB SHARTENBERG SCHOLARSHIP, yielding the recipient one hundred and fifty dollars a year.

THE DYER-GURNEY-REED SCHOLARSHIP of two thousand dollars, founded by Charles F. Reed, of the class of 1885.

THE TWO SETH MANN SCHOLARSHIPS of twenty-five hundred dollars each, founded by Adelaide Elizabeth Mann.

THE JAMES HUMPHREY THURSTON SCHOLARSHIP of five thousand dollars, founded by James Humphrey Thurston, of the class of 1896.

THE TWO WILMARTH HEATH THURSTON SCHOLARSHIPS of five thousand dollars each, founded by James Humphrey Thurston, of the class of 1896.

THE BEVERLEY S. LAKE MEMORIAL SCHOLARSHIP of three hundred dollars a year, given for 1923-24 by the Providence Mothers' Club and others to pay the tuition of a deserving student who shall be selected by a committee of the Club subject to the approval of the President of the University. This scholarship is given in memory of Beverley S. Lake, Chief Mechanic of Battery A, 103d Field Artillery, who, after active service throughout the war, died of pneumonia at Le Mans, France, on March 12, 1919.

THE NANCY GOODNOW FUND of two thousand dollars.

THE AID FUND, established by friends of the University in 1868 and now amounting to nine thousand three hundred dollars.

THE DANIEL WANTON LYMAN FUND FOR STUDENTS, now amounting to nearly seventy-five thousand dollars.

THE EDWIN A. W. HARLOW FUND, now amounting to ten thousand four hundred dollars.

THE ROBERT H. HARLOW FUND of three thousand dollars.

THE ROBERT JAMES YORKSTON MECKEL MEMORIAL FUND of over thirteen hundred dollars, founded by Miss Mary Wehmeyer.

THE JOHN HESS FUND of over eighty thousand dollars, founded by Isban Hess.

THE JAMES WARING FUND of ninety-five hundred dollars.

Since the issue of the last Catalogue two new scholarships have been founded:

THE CLASS OF 1907 SCHOLARSHIP for the Senior year, "to be awarded by the University to a student who combines in high degree scholastic ability, athletic ability and character." The award is to be made "in consultation with a Committee appointed by the Class of 1907."

THE PERRY EDSON FAUNCE SCHOLARSHIP of two thousand dollars, founded by Mrs. Sarah E. Faunce, "the income thereof to be used for scholarship purposes as the governing body of the University may elect."

There are the following funds of one thousand dollars each:

THE ELEVEN NICHOLAS BROWN SCHOLARSHIPS

THE FOUR UNIVERSITY SCHOLARSHIPS

THE PRESIDENT'S SCHOLARSHIP, founded by President Sears.

THE SIX ALVAH WOODS SCHOLARSHIPS

THE JAMES H. DUNCAN SCHOLARSHIP

THE ISAAC DAVIS SCHOLARSHIP

THE ARNOLD WHIPPLE SCHOLARSHIP, founded by Mrs. Arnold Whipple.

THE EPHRAIM WHEATON SCHOLARSHIP, founded by James Wheaton.

THE JOSEPH BROWN SCHOLARSHIP, founded by Mrs. E. B. Rogers.

THE GARDNER COLBY SCHOLARSHIP

THE CROCKER SCHOLARSHIP, founded by R. H. Ives and T. P. Ives, Trustees.

THE CLARK SCHOLARSHIP, also founded by the Messrs. Ives.

THE GEORGE K. AND H. A. PEVEAR SCHOLARSHIP

THE JOSEPH CHARLES HARTSHORN SCHOLARSHIP

THE ROGERS HIGH SCHOOL SCHOLARSHIP, founded by William Sanford Rogers.

THE JAMES WHEATON SCHOLARSHIP

THE CHARLES THURBER SCHOLARSHIP

THE PARDON MILLER SCHOLARSHIP, founded by Mrs. Ann E. Miller.

THE HEZEKIAH S. CHASE SCHOLARSHIP

THE WILLIAM BUCKNELL SCHOLARSHIP

THE AUSTIN MERRICK SCHOLARSHIP, founded by Mrs. Olive E. Merrick.

THE HORATIO N. SLATER SCHOLARSHIP

FELLOWSHIPS, SCHOLARSHIPS, AND FINANCIAL AID 157

THE EARL P. MASON SCHOLARSHIP

THE NEWPORT SCHOLARSHIP, founded by William Sanford Rogers.

THE ALEXIS CASWELL SCHOLARSHIP

THE THREE HENRY JACKSON SCHOLARSHIPS

THE MUMFORD SCHOLARSHIP, founded by Mrs. Louisa D. Mumford.

THE ALBERT DAY SCHOLARSHIP

THE HENRY P. KENT SCHOLARSHIP

THE ROMEO ELTON SCHOLARSHIP

THE LEWIS FAIRBROTHER SCHOLARSHIP, founded by Mrs. Lewis Fairbrother.

THE GEORGE LAWTON SCHOLARSHIP

THE JOHN P. CROZER SCHOLARSHIP, founded by Mrs. Margaret Bucknell.

THE JAMES Y. SMITH SCHOLARSHIP

THE TWO S. S. BRADFORD SCHOLARSHIPS

THE FRANCIS R. ARNOLD SCHOLARSHIP

THE CORNELIA E. GREEN SCHOLARSHIP

THE TWO HENRY CLIFFORD KNIGHT SCHOLARSHIPS, founded by Miss Amelia S. Knight.

THE THURSTON SCHOLARSHIP, founded by the Hon. Benjamin F. Thurston.

THE RUFUS BARCOCK SCHOLARSHIP, founded by Mrs. Caroline V. B. Jones.

THE JAMES FLETCHER BLACKINTON SCHOLARSHIP, founded by Mrs. Mary D. Blackinton.

THE SAMUEL WHITE DUNCAN SCHOLARSHIP, founded by Mrs. Mary Duncan Harris.

THE FIVE WILLIAM A. WHITE SCHOLARSHIPS, founded by Mrs. Abby S. A. White.

THE RICHARDS SCHOLARSHIP, founded by the Rev. William Coolidge Richards.

THE BENJAMIN HUTCHINSON JUDAH SCHOLARSHIP

THE S. DRYDEN PHELPS SCHOLARSHIP

THE ELIOT LOOMIS COLLINS SCHOLARSHIP, founded by Clarkson A. Collins.

THE E. BENJAMIN ANDREWS SCHOLARSHIP, founded by the class of 1898.

THE JOSIAH NELSON CUSHING SCHOLARSHIP, founded by Samuel H. Tingley.

THE LUTHER WHITE SCHOLARSHIP, founded by Mabel Adaline White.

THE HENRY LYON SCHOLARSHIP, founded by William H. Lyon.

THE SCHOLARSHIP OF THE CLASS OF 1895

THE LYMAN PARTRIDGE SCHOLARSHIP, founded by Herbert G. Partridge, M.D.

THE GEORGE W. BERRIMAN SCHOLARSHIP

THE BENJAMIN BRAMAN FUND of one thousand dollars.

THE ALBERT CLIFFORD DAY FUND of one thousand dollars, founded by Mary E. Day.

THE DR. AND MRS. HORACE MANN WILLARD SCHOLARSHIP, founded by the Faculty and pupils of the Quincy Mansion School.

UNIVERSITY SCHOLARSHIPS. In addition to the income of the Scholarship Funds, there have been established University scholarships, which are of three grades:

(1) A small number yielding from \$100 to \$150 each a semester, or from \$200 to \$300 a year, awarded to a few students of especially high scholarship.

(2) A number yielding each \$75 a semester or \$150 a year for students whose academic rank is high.

(3) A number yielding each \$50 a semester or \$100 a year.

It is expected that the holders of these scholarships will regard them as in a certain sense loans, and will at some time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or that they will in some other way contribute to the endowment of the University.

LOAN FUNDS

The University loan fund is used to provide loans of \$50 and \$100 a semester to Freshmen and Sophomores. The loans are secured by a promissory note, issued by the recipient, which draws a low rate of interest (2%) and is payable on or before September 1 following. If payment is made promptly, the student, having fulfilled the conditions controlling scholarships and loans, may at once negotiate a second loan in anticipation of his expenses for the Sophomore year, and thus proceed year by year, receiving and repaying equivalent or somewhat larger loans until he has completed his college course.

The Committee exercises the privilege of transferring loans to scholarships at the end of any semester—in full or fractional amounts—and of giving scholarships in addition to loans, when, in its opinion, the scholastic standing, general ability, and factors of worthiness and promise make such action desirable for the best interest of the University.

THE ALUMNI LOAN FUND, now amounting to about forty-three hundred dollars, was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a loan fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

THE AARON LUCIUS ORDWAY MEMORIAL FUND of twenty-five hundred dollars, founded by Samuel H. Ordway, the income to be used for loans to students.

THE WILLIAM GROSBECK GODDARD MEMORIAL FUND of five thousand dollars, founded by Robert H. I. Goddard, the income to be used for loans to students.

THE JAMES STANTON KENYON MEMORIAL FUND of three thousand dollars, founded by his daughters, Elizabeth Burrows Kenyon Wilkinson and Mary Stanton Kenyon, the income to be used for loans to students.

THE WALTER S. HACKNEY FUND of three thousand dollars, the income to be used for loans to students.

There is another fund, of several hundred dollars, which is loaned in small amounts without interest, for short periods, to students unexpectedly needing temporary assistance.

SERVICE

The University is able to give employment to a number of students as monitors, assistants in the libraries and laboratories, members of the choir, clerks in the Registrar's office, and so forth. Applications for employment of this kind should be filed with the Committee on Student Service. See also the statement concerning undergraduate employment, page 144.

GRADUATE APPOINTMENT OFFICE

The University maintains a Graduate Appointment Office, dealing with permanent positions only, for the use of members of the Senior Class and Alumni. Business positions are in charge of Thomas B. Appleget, Executive Secretary; teaching positions are in charge of the Director of the School of Education.

PREMIUMS, PRIZES, AND HONORS

AWARDS FOR WORK DONE IN COURSE

THE WILLIAM GASTON SCHOLARSHIP is provided by the income of a fund of five thousand dollars established in 1899 by the widow and children of the Hon. William Gaston, LL. D., of the class of 1840. The scholarship is awarded annually by the Faculty solely upon merit, without reference to financial condition. For 1923-24 this scholarship was awarded to

GEORGE HALSEY HUNT

THE CARPENTER PREMIUMS, two in number, are derived from the income of funds established in 1867, one by Thomas Carpenter and one by Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life,—ability, character, and attainment." In 1922-23 these premiums were awarded to

ERNEST LYON LYNN *and* GEORGE WASHINGTON SMITH

THE HOWELL PREMIUM. The income of a fund of one thousand dollars, presented to the University in 1867 by Gamaliel Lyman Dwight, is given at the close of the first semester of the Senior year to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for the premium, a student must, in each semester from the beginning of the Freshman year to the end of the first semester of the Senior year, take at least one course in one of the following subjects: Mathematics, Physics, Mechanics, Astronomy. In 1922-23 this premium was awarded to

GEORGE WASHINGTON SMITH

THE HICKS PRIZE IN ENGLISH is awarded at the end of the first semester of the Senior year to the student having the highest standing in the courses in English literature and language. In 1922-23 this prize was awarded to

JOHN CURTIS REED

THE CULL PRIZE IN ENGINEERING. A prize of fifty dollars, the gift of Joseph H. Cull, of the class of 1910, is awarded at the end of the first semester of the Senior year to the student who, in the estimation of the teachers of engineering in consultation with the committee on scholarships, best combines a high degree of attainment in his engineering studies with a promise of

future professional achievement, particular consideration being shown to those specializing in electrical engineering. In 1922-23 the prize was awarded to

CLARENCE RAYMOND DAY

THE ENGINEERING PRIZE of fifty dollars, presented to the University by graduates of the Engineering Departments and others, is awarded not later than November 1 to the member of the Senior class who, being a candidate for the degree of Bachelor of Science in Engineering, has maintained the highest standing in Engineering 2, 7, 8, 9, 10, 16 (Mechanics, Strength of Materials, Structures, and Hydraulics), and who gives marked promise of future usefulness in some branch of the profession of engineering. In 1923-24 the prize was awarded to

HARRY BERNARD ‡

THE DUNN PREMIUM. The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of Professor Robinson Potter Dunn, is given, at the end of the Junior year, to the student having the highest standing in the courses in rhetoric, English composition, and public speaking. In making the award, regard is given to the number of such courses taken as well as to the rank attained in them. In 1922-23 the prize was awarded to

JOHN JAMES MONK

THE SUSAN COLVER ROSENBERGER PRIZES were established in 1919 by Jesse L. Rosenberger, as a memorial to his wife, who was the daughter of Charles K. Colver, of the class of 1842. The awards are to be made under conditions to be laid down by the University. It is a stipulation of the endowment that the prizes "shall not be assigned permanently to any one department of the University, nor continuously for any one thing, but shall be awarded for whatever, from year to year, or from time to time, it is believed will, at the time, do the greatest good, either in the interests of scholarship, or for the development of character," and that from time to time a medal shall be awarded to a graduate of Brown University or another person "for specially notable or beneficial achievement."

In 1923-24 two prizes will be awarded. A prize of seventy-five dollars will be awarded to an undergraduate for special work in connection with Mathematics 21, 22. The other prize will be awarded at the Women's College. In 1922-23 the prize was awarded at the Women's College.

THE ORDER OF THE SONS OF ITALY IN AMERICA PRIZES IN ITALIAN were established in 1922, and are awarded to those students who make the greatest progress in the courses Italian 1, 2 and 3, 4 during the academic year. The

‡ In 1921-22 the prize was awarded to HENRY ISÉ; in 1922-23 to GEORGE WASHINGTON SMITH.

prizes are two in number in each course, the first prize being of \$60 and the second of \$40. In 1922-23 the prizes were awarded as follows:

In Italian 1, 2, the first prize to GEROLANO JOSEPH CURRERI

The second prize to EDMOND CONSTANTINE LAURELLI

In Italian 3, 4, the first prize to LUIGI CAPASSO

PRIZES AWARDED IN COMPETITION

THE GASTON PRIZE MEDAL FOR EXCELLENCE IN ORATORY. From the income of a fund of three thousand dollars established in 1894 as a memorial to the Hon. William Gaston, LL.D., of the class of 1840, a medal and cash prizes are awarded annually to the member of the graduating class who delivers the best original address in English. The addresses are not to exceed fifteen hundred words. In order to compete for the prize, a student must deposit with the Registrar a typewritten copy of his address, signed with an assumed name, six weeks before the public competition. From these addresses a committee appointed by the President of the University selects not more than six for delivery. The committee of award in the final contest consists of three members appointed by the President. In making the award, regard is given to thought, style, and delivery. The winner of the medal is entitled to deliver an oration at Commencement. In 1923-24 the addresses must be deposited with the Registrar on or before January 5; the public competition will be held on February 19. In 1922-23 the award was made to

LOUIS LORENZO REDDING

THE FOSTER PREMIUM IN GREEK is derived from the income of a fund of three thousand dollars bequeathed in 1880 by the Hon. Lafayette Sabine Foster, of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's *Iliad*, or in the *Oration on the Crown* by Demosthenes." The examinations are open to the members of the Senior class. The next examination will be held on Wednesday, April 30, 1924; candidates will be examined in the *Oration on the Crown*. In 1922-23 the premium was awarded to

DANIEL VINCENT TROPOLI

THE LUCIUS LYON PREMIUMS IN LATIN are derived from the income of a fund of five thousand dollars presented in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year

must be added to the fund. The premiums are awarded on the basis of a special examination held during the second semester of the Senior year. In 1924 the examination will be held on May 14. The examination may relate to any or all of the following subjects: the Latin language, Roman literature, Roman history. The President of the University and the head of the department of Roman Literature and History prescribe the conditions for admission to the examination. In 1922-23 the premiums were awarded as follows:

The first premium to JOHN DAVIS EDMANDS JONES, JR.

The second premium to FRANCIS LELAND JONES

The third premium was not awarded.

THE CLASS OF 1873 PRIZE. The income of a fund of one thousand dollars, presented by the class of 1873, is awarded each year to that member of the Senior class who writes the best essay on a historical or a philosophical subject. The subjects, which are of a historical nature one year and of a philosophical nature the next, are assigned by the respective departments. In 1924 the essays must be deposited with the Registrar on or before May 24. For 1923-24 the subject is: *Evolution of the Idea of a British Commonwealth of Nations*. For 1922-23 the subject was: *The Rôle of Impulse in Conduct*. The prize was awarded to

ARTHUR FRANK McKENNY

THE BISHOP McVICKAR PRIZES were founded by the late Rt. Rev. William N. McVickar, Bishop of the Protestant Episcopal Diocese of Rhode Island, and are now awarded from the income of a fund established in his memory by his sister, Miss E. C. McVickar. A first prize of fifty dollars and a second prize of twenty-five dollars are awarded for the best essays of from three to four thousand words on a subject assigned by the Department of Biblical Literature. The competition is open to undergraduate men who are, or have been, students in the Department of Biblical Literature. Those who intend to compete must give their names to the head of the department not later than February 14, and the essays, under an assumed name, must be delivered to the Registrar not later than April 14. For 1923-24 the subject is: *The Principles of Jesus and International Relations*. For 1922-23 the subject was: *The Development of the Idea of God in the Old Testament*. The prizes were awarded as follows:

The first prize to ARTHUR FRANK McKENNY

The second prize to HAROLD WADE STREETER

THE SOCIETY OF COLONIAL DAMES PRIZE IN AMERICAN HISTORY. The income of a fund of fifteen hundred dollars, known as The Roger Williams Fund established by the National Society of Colonial Dames in the State of

Rhode Island and Providence Plantations, given in 1906, is awarded each year as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Competitors should give their names to the head of the department of History by March 1; the essays, under an assumed name, must be delivered to the Registrar not later than April 26. The award is announced at Commencement. For 1923-24 the subject is: *Francis Parkman, Historian of the American Wilderness*. For 1922-23 the subject was: *The Colonial Merchant of Rhode Island*. The prize was awarded to

CARL EATON MARTIN

THE BENNETT PRIZE of fifty dollars was established in 1905 by Philo Sherman Bennett, for the best essay discussing the principles of free government. The essays, of from three to six thousand words in length, must be typewritten, signed with an assumed name, and deposited with the Registrar before 1 p.m. on Saturday, January 12. The judges, three in number, are appointed by the President. For 1923-24 the subject is: *Should the United States Continue its Present Policy of Restricted Immigration?* For 1922-23 the subject was: *Should the Amending Process of the National Constitution be made more Flexible?* The prize was awarded to

HARRY SHULMAN

THE CLASS OF 1880 PRIZES, established in 1905 by the class of 1880, are awarded each year to those undergraduates who show the most ability in presenting arguments on some current question of importance to the University. The subject for discussion, the time, and the manner of presentation are all determined by representatives of the English department in consultation with the president of the Debating Union, the president of the Cammarian Club, and the editor-in-chief of the *Brown Daily Herald*. The prizes are awarded by a board of five judges: two are appointed by the President, two by the undergraduate members of the committee in charge; the fifth is a member of the English department.

In 1923-24 a first prize of thirty dollars and two second prizes of twenty dollars will be awarded to the students who show the most ability in a public discussion of the subject. This discussion will be held on December 18; a preliminary discussion will be held on December 11. A prize of thirty dollars will be awarded to the writer of the best argumentative essay of from three thousand to five thousand words upon the same subject. The essays must be signed with an assumed name; they must be in the hands of the Registrar before 4 p.m., December 7. Any one of these prizes may be withheld if the judges deem it best. A student may enter both competitions. For 1923-24 this subject is: *Resolved, That fraternity houses justify*

their existence at Brown University. For 1922-23 the subject was: *Should Brown University Limit, by Means of a Point System, the Extra-Curriculum Activities in which each Undergraduate may Participate?* The prizes were awarded as follows:

The first prize for the discussion to JOHN ANDREW WILSON

The second prize for the discussion to GORDON EDWARD BIGELOW

The third prize for the discussion to HERBERT DAY LAMSON

For the essay no award was made.

THE HICKS PRIZES FOR EXCELLENCE IN DEBATE, established by the Hon. Ratcliffe Hicks, of the class of 1864, are annually awarded as follows:

I. Two prizes of fifty dollars each to the two representatives of the University in the major intercollegiate debates who show the greatest ability both in the preliminary trials and in the final trial. In awarding the prize, regard is given to thought, style, and delivery. The judges are at least three in number, appointed by the Debating Union. In 1922-23 these prizes were awarded to

JOHN ANDREW WILSON and WALTER IHMT WALDAU

II. A first prize of thirty dollars and two second prizes of twenty dollars to the students showing the greatest ability in a public debate between the representatives of the Junior and Sophomore classes. Each class is represented by three men, whom a committee appointed by the President of the University chooses from the preliminary contestants at least three weeks before the public debate. This committee also determines the subject and makes the necessary arrangements. The judges in the public debate are three — one appointed by the President, and one by each group of competitors. The prizes are awarded irrespective of the decision upon the debate as a whole. Any one prize may be withheld if no one is adjudged to deserve it. In making the award, regard is given to thought, style, and delivery. In 1924 the public debate will be held on May 13. In 1922-23 these prizes were awarded as follows:

The first prize to HARRY SHULMAN

The second prize to GORDON KEITH CHALMERS

THE CARPENTER PRIZES FOR ELOCUTION, derived from the income of a fund established in 1867 by Thomas Carpenter, are awarded each year to the three students to whom are assigned the first, the second, and the third rank of excellence in elocution. The competition is open to all members of the Sophomore class, and to those members of the Junior class who did not enter the preliminary competition in their Sophomore year. The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than January 19. A preliminary contest for the purpose of selecting the speakers takes place in the early part of the second semester;

all arrangements are in the hands of the Professor of Public Speaking. The committee of award consists of five members, — the Professor of Public Speaking, who is the chairman, two persons selected by the Corporation, and two persons selected by the Sophomore class; no one who is or has been a member of the class is eligible to membership in the committee. In 1923-24 the contest will be held on April 22. In 1922-23 these prizes were awarded as follows:

The first prize to EARLE VINCENT JOHNSON

The second prize to EDWARD WELLINGTON MORRIS

The third prize to GORDON KEITH CHALMERS

THE ROOSEVELT PRIZE was established in 1922 by the Roosevelt Lodge, Free and Accepted Masons, of Providence. A prize of one hundred dollars is awarded to that member of the Junior or Sophomore class who shall write and deliver the best original address of not more than fifteen hundred words on some aspect of the life, character, or services of Theodore Roosevelt. The addresses must be typewritten, signed with an assumed name, and deposited with the Registrar not later than the date set. From the addresses submitted in the preliminary competition, not less than three nor more than six will be selected for public delivery. In making the award, thought, style, and delivery will be considered. In any year the public competition may be omitted if the addresses submitted are too few or are unsatisfactory in quality. General charge of details of the competition, the selection of committees of award, etc., are left in the hands of the University Committee on Prizes and Academic Honors. The conditions of the competition may at any time be changed by mutual agreement of the donors and the Committee on Prizes and Academic Honors.

In 1923-24 the essays must be deposited with the Registrar on or before March 12; the public competition will be held on April 15.

In 1922-23 the prize was awarded to

HERBERT DAY LAMSON

THE J. ACKERMAN COLES PRIZES. The income of a fund of one thousand dollars, presented to the University in 1907 by Dr. J. Ackerman Coles, is expended for prizes for the encouragement of intramural athletic sports.

PRIZES FOR EXCELLENCE IN PREPARATORY STUDIES‡

THE PRESIDENT'S PREMIUMS, derived from the income of a fund presented in 1843 by President Wayland, are awarded each year to those members of the Freshman class who upon examination are found to excel in preparatory

‡ Any of these prizes may be withheld if the papers presented by the competitors are not considered of sufficiently high grade.

Greek and Latin studies. First and second premiums are awarded in each of these studies. In Greek the examination assumes a knowledge of the equivalent of secondary school courses during three years. The student must show his knowledge of the language: (1) by translating passages from Xenophon's *Anabasis*, I-IV, and from Homer's *Iliad* or *Odyssey*, I-III, and also a sight passage of simple Attic prose; (2) by answering specific questions on grammatical forms and syntax, and by translating into Greek an easy passage of English prose, based on the *Anabasis*. The candidate must also show familiarity with the content of the works read and general data concerning their authors.

In Latin the examination presupposes acquaintance with the equivalent of four years of Latin in a secondary school. Ability to translate is tested by selections from work here required, and by passages, involving familiar vocabulary and construction, to be translated at sight. His knowledge of grammatical forms, syntax, and style is tested by translation into Latin of passages in connected discourse in English based on writings of Caesar and Cicero. The examination in Greek is held in 2 Sayles Hall at 2.30 p.m. on the second Wednesday of the first semester and that in Latin in 1 Sayles Hall at 2.30 p.m. on the third Wednesday. The award of these premiums in 1923-24 was as follows:

In Greek, the first premium to DANIEL LAPOLLA, instructed in the Classical High School, Providence.

The second premium to GERALD BLAIR BATE, instructed in the Donaldson School, Ilchester, Md.

In Latin, the first premium to ROBERT MILLER SMITH, instructed in the Brookline High School, Brookline, Mass.

The second premium to MERRILL WALLACE CHASE, instructed in the Classical High School, Providence.

THE HARTSHORN PREMIUMS IN MATHEMATICS, derived from the income of a fund of one thousand dollars presented to the University in 1872 by Joseph Charles Hartshorn, of the class of 1841, are awarded each year to the two members of the Freshman class who are found to excel in an examination on Elementary Algebra (2 units; that is, through quadratic equations and the binomial theorem) and Plane Geometry (1 unit). The examination is held in 26 Wilson Hall at 2 p.m. on the fourth Wednesday of the first semester. In 1923-24 premiums were awarded as follows:

The first premium to JOHN JOSEPH ORTH, instructed in the Brookline High School, Brookline, Mass.

The second premium to IRVING OWEN MINER, instructed in the East Greenwich Academy, East Greenwich.

THE ENTRANCE PREMIUMS IN FRENCH, derived from the income of the President's Premium Fund, are awarded each year to the two members of the Freshman class who are found to excel in an examination presupposing the equivalent of not less than two years' study of French in a secondary school. The examination is held in 1 Sayles Hall at 2 p.m. on the fifth Wednesday of the first semester. In 1923-24 premiums were awarded as follows:

The first premium to JOHN GARDNER GREENE, instructed in the Longwood Day School, Boston, Mass., and St. Mark's School, Southborough, Mass.

The second premium to FREDERICK BERNAYS WIENER, instructed in the Dwight School, New York, N. Y.

THE CAESAR MISCH ENTRANCE PREMIUMS IN GERMAN are awarded each year to the two members of the Freshman class who are found to excel in an examination presupposing the equivalent of not less than two years' study of German in a secondary school. The examination is held in 1 Sayles Hall at 2 p.m. on the sixth Wednesday of the first semester. In 1923-24 the award was as follows:

The first premium was not awarded.

The second premium to FREDERICK BERNAYS WIENER, instructed in the Dwight School, New York, N. Y.

HONOR SCHOLARSHIPS

To encourage proficiency in studies and to provide recognition for successful application to college work, the Faculty has established Honor Scholarships without aid as follows:

THE JAMES MANNING SCHOLARSHIPS, awarded to those undergraduates whose work throughout the year has been of such excellence that they are deemed worthy of very high academic distinction. For 1922-23 these scholarships were awarded as follows:

JAMES MANNING SCHOLARS

Class of 1923

ANTHONY JOSEPH LOIACONO	LEONARD PERKINS SAYLES
ERNEST LYON LYNN	EDWARD SHAW SKILLINGS
JOHN JOSEPH O BRIEN, JR.	GEORGE WASHINGTON SMITH
JOHN CURTIS REED	DANIEL VINCENT TROPPOLI
HAROLD HERBERT YOUNG	

Class of 1924

HARRY BERNARD	RICHARD PANG-NIEN BIEN
GEORGE SAUTÉ	

Class of 1925

MASON BROWN MERCHANT

Class of 1926

JACOB MARK JACOBSON

THE FRANCIS WAYLAND SCHOLARSHIPS, awarded to those undergraduates whose work throughout the year, though not of the highest standard, has been of such excellence that they are deemed worthy of high academic distinction. For 1922-23 these scholarships were awarded as follows:

FRANCIS WAYLAND SCHOLARS

Class of 1923

THEODORE BARTON AKELEY

HARRY HOWARD REYNOLDS

JOHN DAVIS EDMANDS JONES, JR.

JOHN ANDREW WILSON

Class of 1924

GEORGE EDWIN HAM

GEORGE HALSEY HUNT

MALCOLM ALLAN JENCKES

Class of 1925

JOHN DURWARD MINER, JR.

APPOINTMENTS FOR COMMENCEMENT

At Commencement three or four members of the graduating class deliver original orations in English of not more than fifteen hundred words each. One speaker is the winner of the Gaston medal; the others are appointed by the Faculty. The basis of selection is scholarship, ability to write, and ability to speak. In 1923 the speakers selected by the Faculty were:

THEODORE BARTON AKELEY

JOHN DAVIS EDMANDS JONES, JR.

JOHN ANDREW WILSON

PRELIMINARY AND FINAL HONORS

A new system of Honors and Honors Courses was established in 1920 and awards were first made in June, 1922. Its purpose is to encourage and recognize distinguished work by students of exceptional ability. It provides special opportunity for such students to seek scholarly attainment in close association with one or more members of the Faculty, and free from many of the usual routine restrictions. It lays emphasis on mastery of subjects rather than on

completion of particular courses of study. The system is administered by the Committee on Prizes and Academic Honors.

Preliminary Honors of two grades are awarded at the close of the Sophomore year to students whose work for the two years has been of an exceptional character. Final Honors of two grades are awarded at graduation on the basis of a student's work in some chosen field of concentration.

PRELIMINARY HONORS

Two grades of these honors are awarded to candidates for the degrees of A.B., Ph.B., and Sc.B. *Preliminary Honors* are awarded to those who secure the grade of *A* in thirty per cent of their work and the grade of *A* or *B* in seventy per cent of their work; provided that they have not received a grade lower than *C* in more than ten per cent of their work. *Preliminary Highest Honors* are awarded to those whose grades contain (1) not less than sixty-five per cent *A*, and (2) one hundred per cent *A* and *B*.

FINAL HONORS

ELIGIBILITY FOR CANDIDACY. Candidacy for Final Honors is open (1) to those to whom are awarded Preliminary Honors or Preliminary Highest Honors, and (2) to those whose work during the Sophomore year is of the grade required for Preliminary Honors, provided they are formally recommended for candidacy by the department chiefly concerned; also (3) under special circumstances, admission to provisional candidacy may be granted by the Committee to those not regularly eligible.

DATE OF CANDIDACY. Candidacy must ordinarily be announced at the beginning of the Junior year; but under special circumstances candidates may be admitted by the Committee as late as the beginning of the Senior year.

REQUIREMENTS FOR FINAL HONORS. Every candidate must pursue with distinction at least five year-courses in his field of concentration. Final Honors are offered only in departments in which at least one special course can be given to the student each year. These courses may be provided by either (1) additional assignments (in the form of conferences, reading, reports, or laboratory exercises) in connection with courses already offered; or (2) special *Honors Courses*, which call for a quality and quantity of work greatly in excess of ordinary college courses. On recommendation of the department, the Committee may approve double credit for an Honors Course, thus allowing the student to obtain the regular year credit by carrying four courses only.

For the interpretation of these requirements the following general principles have been adopted:

1. That of the three chief respects in which work for Honors can be differentiated from the regular work,—namely, in character, in quality, and in quantity,—a difference in the character of the work is most important and

an increase in its quantity least important; that modifications in the regular work of a course, for Honors students, will normally provide a natural stimulus to work of finer quality and greater amount; and that such modifications may properly be through the reduction of routine and the provision of opportunity for the student to exercise his initiative and originality, under the direction of and in close contact with members of the Faculty.

2. That in arranging the two years' program the respective claims of breadth and of unity should be weighed, and that the general examination at the end should be borne in mind.

3. That all five year-courses must ordinarily be taken in a candidate's Junior and Senior years; but that *not more than one* appropriate course previously taken in which a majority of those enrolled were Juniors and Seniors may be counted toward Honors, with the special permission of the Committee on Prizes and Academic Honors.

4. That no course in which the majority of those enrolled are Freshmen and Sophomores can be counted toward Honors, unless special additional work of an advanced nature is assigned to the candidate by the instructor.

5. That no courses, the materials and general character of which approximate those of work generally offered for admission to Brown University (such courses as French 1, 2, 3, 4, Spanish 1, 2, Italian 1, 2, Greek A, B, and Mathematics A), can be counted toward Honors.

6. That the special work to be done each year should ordinarily be required in connection with only one course.

7. That in general the extra work should be done in connection with a three-hour course in which approximately double work is required and double credit is given; but if the extra work is required in connection with a course for which the student receives only three hours' credit, the additional assignments should be limited to one-third of the normal requirement.

EXEMPTION FROM CERTAIN REQUIREMENTS. Candidates for honors (1) are excused from the regular final examinations of the second semester of the Senior year in courses in their field of concentration, and (2) on recommendation of the departments concerned, will be excused from examination in these courses at the end of the first semester of that year. They will usually be given a place on the "Dean's List" of students of high standing who are relieved of routine requirements with regard to attendance upon classes.

EXAMINATIONS. Before the end of the Senior year, every candidate for honors is examined in the whole work of the field of concentration. This examination consists of a written test of not less than four hours' duration, and of an oral examination, conducted by a committee of the departments concerned. A thesis or report may also be required at the option of these departments. Students failing to maintain the proper standard in this examination are given credit for their concentration work toward the degree, in accordance with the regular requirements for graduation.

RECOMMENDATION FOR HONORS. The two grades of Final Honors are designated as *Final Honors* and *Final Highest Honors*. The latter are awarded only to students of exceptional performance and promise. Recommendations for Final Honors and Final Highest Honors must have the written approval of the departments concerned and of the Committee on Prizes and Academic Honors.

DISCONTINUANCE OF CANDIDACY. Candidates who are found not to be qualified for unusual achievement in the field chosen, or not to be taking advantage of the special opportunities offered, will be required to discontinue candidacy for honors. Candidates will be required to discontinue candidacy at the end of any semester in which they do not maintain an average *B* standing in courses outside their field of concentration.

PRELIMINARY HONORS

In 1923 these were awarded to the following members of the class of 1925 whose grades contained not less than thirty per cent *A*, and not less than seventy per cent *A* and *B*; provided they had not received a grade lower than *C* in more than ten per cent of their work:

MELVIN APPLE
FREDSON THAYER BOWERS
GORDON KEITH CHALMERS
PAUL CHERNOV
FRANCIS IRVING ENSLIN
JOHN ALVERSON FRENCH
DOUGLAS RANDALL GATES

WESLEY GILLIS HUTCHINSON
MASON BROWN MERCHANT
GEORGE WHITE RICHARDSON
NORMAN ORWIG TIETJENS
PAUL JOHN AUGUST WEBER
RICHARD RANDOLPH WHIPPLE
MORRIS EDWARD YARANS

PRELIMINARY HIGHEST HONORS

In 1923 these were awarded to the following member of the class of 1925 whose grades contained not less than sixty-five per cent *A* and one hundred per cent *A* and *B*:

JOHN DURWARD MINER, JR.

FINAL HONORS

In 1923 these were awarded to the following members of the class of 1923:

JUSTIN MEREDITH ANDREWS, *in Biology*
JOHN DAVIS EDMANDS JONES, JR., *in Latin*
ERNEST LYON LYNN, *in Chemistry*
LEONARD PERKINS SAYLES, *in Biology*
GEORGE WASHINGTON SMITH, *in Civil Engineering*
DANIEL VINCENT TROFFOLI, *in Biology*

DEGREES CONFERRED IN 1923

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DEGREES IN COURSE

BACHELOR OF ARTS

Theodore Barton Akeley	Carl Eaton Martin
John Emil Almfeldt	Winthrop Marshall Munro
Charles Arthur Braitsch	John Edward O'Neil
Joseph Sydney Eisenberg	Israel Rabinovitz
Philip Kendall Finegold	Louis Lorenzo Redding
Lloyd Elisha Gallup	John Curtis Reed
Raymond Frank Goodman	Harvey Sweet Reynolds
James Henry Hagan, Jr.	Donald Clarke Rubel
William Garland Heeks	Robert Joseph Russell, Jr.
Daniel Chase Hey, Jr.	Agostino Sammartino
Theodore Roosevelt Jeffers	Leonard Perkins Sayles
Willard Forest Johnson	William Kenneth Sheehan
Francis Leland Jones	Harry Shulman
John Davis Edmands Jones, Jr.	Ronald Bancroft Smith
Chilton Latham Kemp	Harold Wade Streeter
Lester Kriebel Kriebel	Daniel Vincent Troppoli
Max Levin	Willard Mowry Walcott
Edward Winslow Lincoln	Walter Ihmt Waldau
Lawrence Anthony McCarthy	William John Walsh
Alfred Joseph Marron. <i>With the class</i>	Philip Albro Welch
<i>of 1917</i>	John Andrew Wilson
William Chesley Worthington	

Grace Mildred Andrews	Agnes Cole
Mary Calder Appel	Margaret Mary Cummings
Mildred Russell Bailey	Alice Estelle Desmond
Margaret Dover Barton	Catherine Theresa Fanning
Eleanor Beers	Alice Hannah Glaeser
Agnes Clementyne Boylan	Esther Louise Hagstrom
Lottie Brindle	Ruth Hanchett
Mary Sulley Brown	Marian Glaze Hassinger
Elsie Marie Carlen	Mary Catherine Hogan
Dorothy Margaret Carr	Mary Elizabeth Holland
Margaret Elizabeth Cheetham	Dorothy Beryl Hotchkiss
Anna Gardner Coggeshall	Sarah Jacobson

Dessie Kushelevitch
 Irene Magdalen Long
 Ruth Almira Lothrop
 Helen Cunyes MacNaught
 Ruth Wilmarth Marvel
 Helen Agnes Mauran
 Dorothy Thayer Mowry
 Miriam Nagle
 Eileen Isabelle Ostiguy
 Ruth Elizabeth Parsons
 Dorothy Frink Patton
 Ruth Howard Preston
 Eva Rabinovitz

Edythe Florence Reeves
 Bella Rubinstein
 Mary Elmira Schroeder
 Joanna Monica Shea
 Grace Dauer Shein
 Dorothy Simpson
 Bernice Grace Smith
 Dorothea Alice Smith
 Nellie Clayton Stokes
 Belmira Evelina Tavares
 Muriel Theresa Tierney
 Sarah Eleanor Wells
 Ruth Marietta White

Frances May Wright

BACHELOR OF PHILOSOPHY

Robert Parker Adams
 Robert Matile Addoms
 Richard Almy
 Justin Meredith Andrews
 Harris Carpenter Anthony
 John Bayles Applegate
 Robert Lee Baker, Jr.
 Harold Francis Ballou
 Edward Fletcher Barrows
 Dwight Kellogg Bartlett, Jr.
 Charles Beattie
 Walter Francis Becket
 Frederic Newman Beede
 Roger Vassar Bellmore
 Clarence Edwin Bennett
 Edmund Joseph Bennett
 Newell Walcott Bishop
 Kenneth Pond Blake
 Edwin Croston Brady
 William Henry Bromage
 Donald Proctor Brown
 James Davenport Bryden
 Theodore Ford Carlisle
 Robert Emmett Carrigan
 Nathaniel Borden Chase
 Clinton George Clough
 John Francis Connelly

Robert Ball Coons
 Philip Hugh Cox
 Alfred James Curry
 William Michael Cushman
 George Rogers Decker
 Stanley Key Dickinson
 William Dighton
 Walter Irving Dolbeare
 Thomas Walton Doyle
 Robert Francis Dube
 Frank Benjamin Durfey, 2d
 Thomas Benjamin Dustin
 Milton Edward Earle
 Robert Lincoln Eaton
 Harold Lamprey Ellsworth. *With the
 class of 1922*
 Lawrence Cornelius Elmendorf
 Homer Ramsdell Faulkner
 Jerome Layton Fisher
 Millard Thayer Gaskill
 George Henry Gates
 Bruce Stuart Gilchrist
 Alfred Livingston Goddard
 Edmond White Goldstein
 Guillermo Enrique Gonzalez
 Edward Joseph Gorman, Jr.
 Carl Augustus Green

Ralph Drayton Greene
 Kalei Kaonohi Gregory
 Artcher Estabrook Griffin
 Eugene Frederick Grunewald
 Mianese Gulian
 Henry Joseph Hanley
 Benjamin Pearce Harris, Jr.
 William Raymond Hawkins
 Raymond Munroe Henshaw
 Edward Hallsted Hewitson
 Herbert Malcolm Hofford
 William Marshall Howard. *With the class of 1922*
 Lincoln Hamblen Howe
 Nelson Cottrell Hoxsie, Jr.
 Albert Brown Jeffers. *With the class of 1922*
 Bruce Mouat Jeffris. *With the class of 1917*
 Willard Brownell Jewell
 George Colgan Johnstone
 Elmer Roy Joslyn
 John Joseph Kinney, Jr.
 Myron Urban Lamb
 Lawrence Lanpher
 Harold Knut Larson
 Norman Lester Lawrence
 George Vincent Leddy
 Bertrand Mulloy Lewis
 Wallace Lisbon
 Robert Cushing Litchfield
 Anthony Joseph Loiacono
 Albert Otto Lundin
 Ernest Lyon Lynn
 William Best McCormick
 Arthur Frank McKenny
 Walter Kilgore Macfarlane
 Alfred Russell Mack. *With the class of 1922*
 Joseph Wilkes Mackenzie, 2d
 William Arthur Marks. *With the class of 1922*
 Robert Osmond Meader

David Alan Midgley
 Samuel Byron Milton
 Eben Paine Morse
 William Calvin Munroe
 John Francis Murphy (1)
 John Francis Murphy (2)
 Skillman Earl Myers
 Milton Powell Newsome
 Abner Buckingham Newton
 George Henry Nichols
 John Joseph O'Brien, Jr.
 Leo Joseph O'Donnell
 John Augustine O'Neill
 John Coffey Oram. *With the class of 1922*
 Norman Justin Paasche
 Forrest Freese Paige
 George Henry Parker, Jr.
 Edward Judson Phelps. *With the class of 1921*
 Fergus Beattie Purves
 Hugh Francis Rennie
 Harry Howard Reynolds
 Clarence Lyman Rice
 Laurence Ayers Rice
 Earl Wilson Rogers
 Milton Irwin Rose
 Willan Charles Roux
 Joseph Bonaparte Rumsey
 Sedgwick Rusling Ryno
 Charles Lester Scanlon
 William Kirk Schanck
 Kenneth Paul Sheldon
 Bertrand Leslie Shurtleff. *With the class of 1922*
 Allen Belknap Sikes
 Thomas Gerowe Simmons
 Willard Simon
 Albert Nathanael Sjoberg
 Edward Shaw Skillings
 Richard Carroll Smith
 Charles Soforenko
 Robert Harris Spellman

Francis Marshall Sprague
 Noyes Colburn Stickney
 Harold Lomas Summerfield
 Morris Francis Swaney
 Fred Elmore Sweet
 George Frederick Thibodeau
 Don Carlos Thorndike
 Marcus Alvah Tinker
 Alvin Chalmers Toner
 John Norman Tyler
 Elmer Archer Wagner
 Lawrence Whitcomb. *With the class of 1922*

Alfred Edmund Whitehouse, Jr.
 Robert Thomas Williams
 Paul Knight Wilson
 Clarence Edward Winsor. *With the class of 1922*
 Michael Wofsey
 David Aaron Wollman
 John Wyman Worthington
 Vincent York
 Harold Herbert Young
 Ivan Merrill Young. *With the class of 1922*

Ruth Phyllis Appel
 Susan Burton Appel
 Helen Brown Avery
 Ruth Bateman
 Gladys Margaret Bauer
 Ruth May Bugbee
 Ruth Upton Burt
 Janet Chew
 Miriam Schick Dick
 Elizabeth Ewart
 Marion Lilius Fairweather
 Josephine Mary Flumere
 Helen Catherine Harper. *With the class of 1922*
 Helen Anderson Hoff
 Marion Sieverts Holland

Evelyn Bowker Lockman
 Florence Josephine Maguire
 Florence Goff Moulton
 Eleanor Woodward Parmelee
 Mildred Mae Reed
 Beatrice May Richards
 Emilia Eleanor Robison
 Marie Adella Rowe
 Ida Rubinstein
 Carolyn Rebecca Smith
 Elizabeth Thatcher Stafford
 Elsie Pauline Swanson
 Olive Greene Wildes
 Catherine Veronica Winsper
 Maude Ella Wishart
 Alice Montgomery Wright

BACHELOR OF SCIENCE IN ENGINEERING

Frederic Kenneth Armstrong
 Robert Smith Barker
 Robert Gordon Bleakney
 Martin Campbell
 Allan Bretterg Colby. *With the class of 1921*
 Clarence Raymond Day
 Frank Edwin Fahlquist
 Howard Leavitt Fales
 Carroll Lee Freeman
 Robert Henry Girvin, Jr.

Clarence Sperry Gray
 Theodore Connor Harris
 LeRoy Weeden Hart
 Wallace Howard Henshaw
 Edward Ainslie Hummel
 Wilfred Ernest Kneeland
 George Karl Langenecker, Jr.
 Arvid Norlander Larson
 Raymond Carl Lawson
 Leopold Alphonse Legris
 Charles Phillip Lindner

Stephen Arthur McClellan	Warren Hutchinson Smith
Earl Whitney Milligan	Rolf Einar Soderback
John Selden Parker	Stuart Fairchild Terrill
William Eugene Ryon, Jr. <i>With the</i>	Abel Stuart Tinkham
<i>class of 1922</i>	John Francis Trainor
George Washington Smith	Paak Kam Wong

BACHELOR OF EDUCATION

George Linus McKinnon	Mary Buchanan Harper
	Mary McGair

MASTER OF ARTS

Isabel Ross Abbott, A.B.	Ernest Lyon Lynn
Helen Tucker Albro, A.B.	Mary Catherine McCarthy, A.B.
Madeleine Elizabeth Baxter, A.B.	Mandana Marsh, A.B.
Robert Kershaw Bennett, A.B.	Olin Everett Nelsen, A.B.
Kathleen Victoria Boyd, A.B.	Paul Justin Northrup, A.B.
Madelaine Ray Brown, A.B.	Mary Frances O'Rourke, A.B.
Edward Albert Bullock, A.B.	John Francis Quinn, Ph.B.
Arthur Justin Dows, Ph.B.	Dorothy Caroline Rickenbacher, A.B.
Edna Dwyer, A.B.	Hugh Robertson, Ph.B.
Donald Lord Finlayson, B.S.	Molly Nyma Rubinstein, Ph.B.
Jefferson Whitfield Harrell, A.M.	John Schneider, Ph.B.
May Hall James, Ph.B.	Mary Josephine Toole, A.B.
Mary Elizabeth Judge, A.B.	Daniel Vincent Troppoli
Mary Gertrude Kelley, A.B.	Knowlton Mead Woodin, Ph.B.

MASTER OF SCIENCE

Willis Hobron Jeffrey, Ph.B.	Everett Shovelton Sanderson, Sc.B.
Fannie Grace Leonard, Sc.B.	Philip Carl Scherer, Jr., Ph.B.
Jane Frances Peckham, A.B.	Angelo Scorpio, B.S.
	William Harvey Simas, B.S.

MASTER OF BUSINESS ADMINISTRATION

Avon Douglas Green, Ph.B.	Townes Malcolm Harris, A.M.
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DOCTOR OF PHILOSOPHY

John Edward Blair, A.B., Sc.M.

THESIS: "Contributions to the Study of the Twort-d'Herelle Phenomenon."

Charles John Fish, Ph.B., Sc.M.

THESIS: "The Seasonal Distribution of the Plankton of the Wood's Hole Region."

Benjamin Malcolm Harris, A.M., B.D.

THESIS: "The Metaphysical Basis of Religion."

BROWN UNIVERSITY

Andrew Hamilton MacPhail, A.M.

THESIS: "The Selection, Retention, and Guidance of College Students — with Special Reference to the Use of Intelligence Tests."

Charles Arthur Stuart, Ph.B., Sc.M.

THESIS: "The Effect of Environmental Changes on the Growth, Morphology, Physiology, and Immunological Characteristics of Bacterium Typhosum."

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HONORARY DEGREES CONFERRED BY THE BOARD OF FELLOWS

MASTER OF ARTS

ARTHUR YOUNGER FORD

THOMAS FRANCIS IRVING McDONNELL

GEORGE BURWELL UTLEY

DOCTOR OF DIVINITY

CHARLES MUNROE SHELDON

DOCTOR OF LAWS

JAMES ROWLAND ANGELL

JOHN WILLIAM DAVIS

JOHN WINGATE WEEKS

DOCTOR OF LETTERS

JOSEPH BUCKLIN BISHOP

DOCTOR OF SCIENCE

GEORGE DAVID BIRKHOFF

JAMES WILLIAM MCBAIN

LIST OF STUDENTS

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GRADUATES

- Daniel Gaskill Aldrich** *Providence*
B.S. (*Rhode Island State College*) 1916. Education. Registered candidate for A.M.
- Dorothy Carter Allan** *Providence*
A.B. (*Brown University*) 1918. Education. Registered candidate for A.M.
- John Emil Almfeldt** *Sweden*
A.B. (*Brown University*) 1923. Biblical Literature, Philosophy, Botany. Enrolled candidate for A.M.
- Edmund Gustave Eric Anderson** *South Woodstock, Ct.*
A.B. (*Clark University*) 1920; A.M. 1923. Biology, Chemistry. Registered candidate for Ph.D.
- Marguerite Appleton** *Providence*
A.B. (*Brown University*) 1914. History, Philosophy. Enrolled candidate for A.M.
- Mary Mildred Atwell** *Taunton, Mass.*
A.B. (*Mount Holyoke College*) 1918. Education. Registered candidate for A.M.
- Helen Brown Avery** *Providence*
Ph.B. (*Brown University*) 1923. Biology, Geology, Botany. Enrolled candidate for A.M.
- Mildred Russell Bailey** *Providence*
A.B. (*Brown University*) 1923. Education, Italian. Enrolled candidate for A.M.
- Robert Lee Baker, Jr.** *Ashland, Ky.*
Ph.B. (*Brown University*) 1923. History. Enrolled candidate for A.M.
- Miriam Amy Banks** *Providence*
Ph.B. (*Brown University*) 1914. Art. Enrolled candidate for A.M.
- Raymond Livingston Barney** *Fairport, Iowa*
B.S. (*Rhode Island State College*) 1915; Sc.M. (*Brown University*) 1916. Biology. Enrolled candidate for Ph.D.
- Ruth Mary Bartley** *Ashuelot, N. H.*
A.B. (*Middlebury College*) 1915. Education. Special graduate.
- Mildred Evelyn Bassett** *Greene*
A.B. (*Mount Holyoke College*) 1917; A.M. (*Brown University*) 1922. History, Education. Registered candidate for Ph.D.
- Gladys Margaret Bauer** *Attleboro, Mass.*
Ph.B. (*Brown University*) 1923. Biology, Geology. Enrolled candidate for A.M.
- Clarence Edwin Bennett** *Lakewood*
Ph.B. (*Brown University*) 1923. Physics, Mathematics, Chemistry. Enrolled candidate for A.M.
- Henry Arnold Bennett** *Providence*
A.B. (*Wesleyan University*) 1919. Education. Registered candidate for A.M.
- Margaret Mary Bennett** *Providence*
A.B. (*St. Elizabeth's*) 1923. Education, History. Special graduate.
- Robert Kershaw Bennett** *Central Falls*
A.B. (*Brown University*) 1909; A.M. 1923. Education, Sociology. Registered candidate for Ph.D.

- Newell Walcott Bishop *Pawtucket*
Ph.B. (*Brown University*) 1923. Economics, History. Registered candidate for A.M.
- Eleanor Mary Black *Providence*
A.B. (*Trinity College*) 1923. Education. Enrolled candidate for A.M.
- Alice Marie Blessing *Providence*
A.B. (*Brown University*) 1907. Education. Enrolled candidate for A.M.
- Clarence William Bosworth *Auburn*
A.B. (*Brown University*) 1909; A.M. 1910. Education, Sociology. Registered candidate for Ph.D.
- Agnes Clementine Boylan *Providence*
A.B. (*Brown University*) 1923. Education, History. Registered candidate for A.M.
- Evelyn R. Browne *West Rye, N. H.*
A.B. (*University of New Hampshire*). Education. Special graduate.
- Gordon Warner Browne *Worcester, Mass.*
A.B. (*Clark University*) 1920; A.M. 1921. Biology, Physics. Special graduate.
- James Davenport Bryden *Kingston, Pa.*
Ph.B. (*Brown University*) 1923. Philosophy. Enrolled candidate for A.M.
- Walter Chester Cameron *Auburn*
A.B. (*Brown University*) 1910. Education, Sociology. Registered candidate for A.M.
- Rhobie Lucelia Cargill *Valley Falls*
B.S. (*Rhode Island State College*) 1909. Botany, Geology. Enrolled candidate for Sc.M.
- Phillips Dean Carleton *Providence*
A.B. (*Brown University*) 1920. English. Enrolled candidate for A.M.
- Herbert Alton Chaffee *Seekonk, Mass.*
Ph.B. (*Brown University*) 1922. Education. Registered candidate for A.M.
- Elliott Ward Cheney *Orange, Mass.*
A.B. (*Dartmouth College*) 1920. Physics, Mathematics, Chemistry. Enrolled candidate for A.M.
- Alton Charles Chick *Providence*
Sc.B. (*Brown University*) 1919. Civil Engineering. Registered candidate for Sc.M.
- Henry Everett Childs *East Providence*
B.S. (*Rochester University*) 1916. Biology. Enrolled candidate for Sc.M.
- Lucy Marguerite Church *Tiverton*
B.S. (*Simmons College*) 1908. Education, English. Registered candidate for A.M.
- Marian Helen Collins *North Attleboro, Mass.*
A.B. (*Trinity College*) 1923. Education. Special graduate.
- John Jerome Condon *Bristol*
B.S. (*Rhode Island State College*) 1920. Education, Chemistry. Special graduate.
- Percy Raymond Crosby *Pawtucket*
B.S. (*New Hampshire College*) 1912; A.M. (*Brown University*) 1919. Education. Registered candidate for Ph.D.
- Dorothy Cross *Providence*
A.B. (*Wellesley College*) 1916; A.M. (*Brown University*) 1917. Education. Special graduate.
- Minot Joy Crowell *Central Falls*
Ph.B. (*Brown University*) 1915; Sc.M. 1917. Biology. Enrolled candidate for Ph.D.
- Margaret Mary Cummings *Providence*
A.B. (*Brown University*) 1923. Education. Enrolled candidate for A.M.

- Elizabeth Foster Cushman *Pawtucket*
A.B. (*Oberlin College*) 1922. Education. Registered candidate for A.M.
- Clarence Raymond Day *Providence*
Sc.B. (*Brown University*) 1923. Engineering, Geology. Registered candidate for Sc.M.
- Gertrude Priscilla Dimick *Providence*
A.B. (*Smith College*) 1922. Biology. Enrolled candidate for A.M.
- Horace Holbrook Dodge *Andover, Mass.*
A.B. (*Harvard University*) 1922. English. Registered candidate for A.M.
- George Ronello Dolloff *Providence*
A.B. (*Bates College*) 1915; A.M. (*Brown University*) 1920. Education, Chemistry. Registered candidate for Ph.D.
- Julia Agnes Dorrington *Blackstone, Mass.*
A.B. (*Boston University*) 1901. Education. Registered candidate for A.M.
- Arthur Justin Dows *Lowell, Mass.*
Ph.B. (*Brown University*) 1919; A.M. 1923. Education, History. Registered candidate for Ph.D.
- Isabel Durfee *Providence*
A.B. (*Smith College*) 1921. Education, Spanish. Registered candidate for A.M.
- Morley Johnson Durost *Apponaug*
A.B. (*Bates College*) 1921. Education. Registered candidate for A.M.
- Milton Edward Earle *Westport Point, Mass.*
Ph.B. (*Brown University*) 1923. Education. Registered candidate for A.M.
- Robert Lincoln Eaton *Worcester, Mass.*
Ph.B. (*Brown University*) 1923. Biology. Enrolled candidate for Sc.M.
- Frank Edwin Fahlquist *Providence*
Sc.B. (*Brown University*) 1923. Geology, Chemistry. Enrolled candidate for Sc.M.
- Wayne Moody Faunce *Providence*
Sc.B. (*Brown University*) 1921. Engineering, Geology. Registered candidate for Sc.M.
- James Hampton Fithian *Bridgeton, N. J.*
A.B. (*Lafayette College*) 1920. Mathematics. Enrolled candidate for A.M.
- Anna Madeline Flaherty *Valley Falls*
A.B. (*Brown University*) 1914. Education. Registered candidate for A.M.
- Alvin Almy Gaffney *Fall River, Mass.*
A.B. (*Brown University*) 1922. Education. Enrolled candidate for A.M.
- Mary Rose Gorman *Central Falls*
A.B. (*Emmanuel College*) 1923. Education. Special graduate.
- Alice Ann Grant *Alberta, Canada*
A.B. (*University of Toronto*) 1921; A.B. (*McMaster University*) 1922. Mathematics. Enrolled candidate for A.M.
- Attmore Edwin Griffin *Wakefield*
Ph.B. (*Brown University*) 1918. Chemistry, Biology. Enrolled candidate for Sc.M.
- James Lawrence Hanley *Providence*
A.B. (*Boston College*) 1919; A.M. (*Brown University*) 1920. Education. Registered candidate for Ph.D.
- Reginald Gordon Harris *Manchester, N. H.*
Ph.B. (*Brown University*) 1918; A.M. 1918. Biology. Enrolled candidate for Ph.D.
- Walter Hills Hibbard *Manchester, Ct.*
Ph.B. (*Brown University*) 1922. Education, English. Enrolled candidate for A.M.

- Arthur Owen Hickson *St. John, N. B.*
A.B. (*Acadia University*) 1921. Mathematics. Enrolled candidate for A.M.
- Mary Catherine Hogan *Pawtucket*
A.B. (*Brown University*) 1923. Education, Political Science. Enrolled candidate for A.M.
- Guy Willis Holmes *St. Louis, Mo.*
A.B. (*Henderson-Brown College*) 1909; A.B. (*Drury College*) 1920. Social Science, Education. Registered candidate for Ph.D.
- Josephine Alice Hope *Edgewood*
A.B. (*Brown University*) 1921. English, Greek. Enrolled candidate for A.M.
- Nathaniel Orson Howard *Providence*
Ph.B. (*Brown University*) 1903; Sc.M. 1917. Botany, Biology. Enrolled candidate for Ph.D.
- Clifford Chesley Hubbard *Providence*
A.B. (*Brown University*) 1908; A.M. (*Harvard University*) 1917. Political Science. Registered candidate for Ph.D.
- May Hall James *Arlington*
Ph.B. (*Brown University*) 1909; A.M. 1923. Sociology, Education. Registered candidate for Ph.D.
- Francis Leland Jones *Greenfield, Mass.*
A.B. (*Brown University*) 1923. Education. Enrolled candidate for A.M.
- Hobart Vassar Jones *Livermore Falls, Me.*
B.S. (*Tufts College*) 1921. Education. Registered candidate for A.M.
- Mary Madeleine Kane *Pontiac*
A.B. (*Brown University*) 1913. History, Education. Registered candidate for A.M.
- Celia Kaufman *Pawtucket*
A.B. (*Brown University*) 1922. Biology, Botany. Enrolled candidate for A.M.
- Eunice Truman Keough *Pawtucket*
A.B. (*Brown University*) 1922. Education. Enrolled candidate for A.M.
- Yoshihiro Kikkawa *Yamaguchi, Japan*
(*College of Commerce, Yamaguchi*); (*Harvard University*). Economics. Enrolled candidate for M.B.A.
- Nathan Gardner Kingsley *Providence*
A.B. (*Union College*) 1882. Social Science, Education. Registered candidate for A.M.
- Clifford Kirkpatrick *Leominster, Mass.*
A.B. (*Clark University*) 1920; A.M. 1922. Social Science. Registered candidate for Ph.D.
- Charles Hunt Kirschbaum *Pawtucket*
A.B. (*Bates College*) 1920. Education. Special graduate.
- Ruth Helen Knight *Belfast, Me.*
A.B. (*Wheaton College*) 1923. Education. Special graduate.
- Daniel Harrison Kulp, 2d *New York, N. Y.*
A.B. (*Brown University*) 1913; A.M. 1913. Sociology. Enrolled candidate for Ph.D.
- Byron Austin Ladd *Woonsocket*
B.S. (*Colby College*) 1915; A.M. 1916. Education. Registered candidate for A.M.
- Laura Eugenie La Fond *Woonsocket*
B.S.S. (*Boston University*) 1922. Education. Special graduate.
- Frank Edward Lally *Fall River, Mass.*
A.B. (*St. Mary's University*) 1915; A.M. 1916. History, Education. Special graduate.
- Carl Joseph Lalumia *Lodi, N. J.*
Ph.B. (*Brown University*) 1924. Political Science, History. Enrolled candidate for A.M.

- Anne Louise Lawton *Providence*
A.B. (*University of Vermont*) 1920. Chemistry, Biology. Special graduate.
- Dorothy Leavens *Pawtucket*
A.B. (*Brown University*) 1922. Education, French. Registered candidate for A.M.
- Fannie Grace Leonard *Raynham Centre, Mass.*
B.S. (*Simmons College*) 1911; Sc.M. (*Brown University*) 1923. Biology, Philosophy. Registered candidate for Ph.D.
- Linda May Lowell *Providence*
Ph.B. (*Brown University*) 1904. Education. Registered candidate for A.M.
- Douglas Hargrave Loweth *Providence*
A.B. (*King's College*) 1918; A.M. 1919; B.D. 1920; A.M. (*Brown University*) 1922. Philosophy, Sociology, History. Registered candidate for Ph.D.
- Mary Catherine McCarthy *Providence*
A.B. (*Brown University*) 1922; A.M. 1923. Biology. Registered candidate for Ph.D.
- Madonna Violet McDermott *Providence*
A.B. (*Brown University*) 1921. Education. Registered candidate for A.M.
- Charles Berger MacKay *Providence*
Ph.B. (*Brown University*) 1916. Education. Enrolled candidate for A.M.
- William McNiel *Lytle, Texas*
A.B. (*Baylor University*) 1923. Biblical Literature, Sociology. Enrolled candidate for A.M.
- Donald Hector MacPherson *Annapolis Royal, N. S.*
B.S. (*Acadia University*) 1921. Mathematics, Physics. Enrolled candidate for A.M.
- Mandana Marsh *Sandwich, Mass.*
A.B. (*Wheaton College*) 1922; A.M. (*Brown University*) 1923. Biology, Geology. Registered candidate for Ph.D.
- Ruth Wilmarth Marvel *East Providence*
A.B. (*Brown University*) 1923. Education. Registered candidate for A.M.
- Alfred Joseph Maryott *Seekonk, Mass.*
A.B. (*Brown University*) 1908; A.M. 1916. Education, Economics, Sociology. Registered candidate for Ph.D.
- Charles Warren Mesner *Fall River, Mass.*
B.S. (*Nebraska Central College*) 1909; B.D. (*Hartford Theological Seminary*) 1912. Biblical Literature, Philosophy. Enrolled candidate for A.M.
- Jesse Benton Mowry *Chepachet*
A.M. (*Brown University*) 1915. Sociology. Special graduate.
- James Aloysius Murphy *Woonsocket*
B.S. (*Rhode Island State College*) 1919. Education. Special graduate.
- John McCarthy Murphy *Fall River, Mass.*
A.B. (*Holy Cross College*) 1916. Education. Registered candidate for A.M.
- Olin Everett Nelsen *College View, Neb.*
A.B. (*Union College, Nebraska*) 1922; A.M. (*Brown University*) 1923. Biology. Registered candidate for Ph.D.
- Elizabeth Rogers O'Donnell *Woonsocket*
A.B. (*Brown University*) 1918. Education. Registered candidate for A.M.
- Mary Frances O'Rourke *Providence*
A.B. (*Brown University*) 1919; A.M. 1923. Art. Registered candidate for Ph.D.
- Samuel Ryder Parks *Fall River, Mass.*
Ph.B. (*Brown University*) 1911; A.M. (*Valparaiso University*) 1916. Education. Special graduate.

- Helen Elizabeth Peck *Peace Dale*
A.B. (*Wellesley College*) 1904. English. Enrolled candidate for A.M.
- Jane Frances Peckham *Bradford*
A.B. (*Brown University*) 1918; Sc.M. 1920. Biology. Registered candidate for Ph.D.
- Louis Arthur Raymond Pieri *New Brunswick, N. J.*
Ph.B. (*Brown University*) 1920; Sc.M. 1920. Chemistry, Physics. Enrolled candidate for Ph.D.
- Horace Boss Pray *Pawtucket*
Ph.B. (*Brown University*) 1922. Chemistry, Physics, Biology. Enrolled candidate for Sc.M.
- Dorothy Preston *Providence*
Ph.B. (*Brown University*) 1920; A.M. 1921. English. Registered candidate for Ph.D.
- Alice Lisle Prichard *Atlanta, Ga.*
B.S. (*University of Chicago*). Education. Special graduate.
- Downing Enbank Proctor *Granville, Ohio*
Ph.B. (*Denison University*) 1923. Sociology, Political Science. Enrolled candidate for A.M.
- George Washington Putnam *Norton, Mass.*
A.B. (*Grove City*) 1898; A.B. (*Harvard University*) 1903; A.M. 1904. English, German. Special graduate.
- Hope Rawson *Providence*
A.B. (*Smith College*) 1922. Biology, Chemistry. Enrolled candidate for Sc.M.
- Mildred Mae Reed *Providence*
Ph.B. (*Brown University*) 1923. Biology, Chemistry. Enrolled candidate for A.M.
- Edythe Florence Reeves *Auburn*
A.B. (*Brown University*) 1923. Education. Registered candidate for A.M.
- Harry Howard Reynolds *Providence*
Ph.B. (*Brown University*) 1923. Chemistry, Biology, Mathematics. Registered candidate for Sc.M.
- Louise Davis Reynolds *Providence*
A.B. (*Wellesley College*) 1921. Psychology, Education. Registered candidate for A.M.
- Earle Wilson Baker Rogers *Fiskeville*
Ph.B. (*Brown University*) 1923. Education, English. Enrolled candidate for A.M.
- Ella Charlotte Rogers *Norwich, Ct.*
A.B. (*Mount Holyoke College*) 1901. Chemistry, Biology, Education. Enrolled candidate for A.M.
- Lucile Rogers *Providence*
A.B. (*Brown University*) 1922. Biology, Botany, Geology. Enrolled candidate for A.M.
- Reginald Ivan Rose *Baltic, Ct.*
A.B. (*Brown University*) 1922. English. Enrolled candidate for A.M.
- Bella Rubinstein *Providence*
A.B. (*Brown University*) 1923. French. Registered candidate for A.M.
- Ida Rubinstein *Providence*
Ph.B. (*Brown University*) 1923. French. Registered candidate for A.M.
- Robert Joseph Russell, Jr. *Uxbridge, Mass.*
A.B. (*Brown University*) 1923. Economics. Registered candidate for M.B.A.
- Edith H. Sargent *Attleboro, Mass.*
Ph.B. (*Boston University*) 1901. Education, English. Registered candidate for A.M.
- Leonard Perkins Sayles *Chepachet*
A.B. (*Brown University*) 1923. Biology. Enrolled candidate for A.M.

- Philip Carl Scherer, Jr. *Mount Sinai, N. Y.*
Ph.B. (*Brown University*) 1915; Sc.M. 1923. Chemistry. Registered candidate for Ph.D.
- Carolyn M. Searle *Providence*
A.B. (*Boston University*) 1900; A.M. (*Brown University*) 1903. Education. Registered candidate for Ph.D.
- Bernice Estelle Sears *Providence*
A.B. (*Brown University*) 1910. Education, Latin. Registered candidate for A.M.
- Grace Dauer Shein *Providence*
A.B. (*Brown University*) 1923. Education, English. Registered candidate for A.M.
- Laura Richards Sherman *Providence*
A.B. (*Brown University*) 1906. Education, English. Enrolled candidate for A.M.
- Bernice Grace Smith *Providence*
A.B. (*Brown University*) 1923. Education. Registered candidate for A.M.
- Donald Bertram Snyder *Wabash, Ind.*
A.B. (*Earlham College*) 1921. English, German. Registered candidate for A.M.
- Charles Lloyd Southey *Rumford*
B.S. (*Bates College*) 1919. Biology. Registered candidate for Sc.M.
- Elizabeth Thatcher Stafford *Providence*
Ph.B. (*Brown University*) 1923. Mathematics, Physics. Enrolled candidate for A.M.
- Phyllis Stanley *Newark, N. J.*
Ph.B. (*Brown University*) 1924. Biology. Enrolled candidate for A.M.
- William Thurman Stanton *Waco, Texas*
A.B. (*Baylor University*) 1920; A.M. (*Brown University*) 1921. Economics, Sociology. Registered candidate for Ph.D.
- Wynne Chard Stevens *Providence*
A.B. (*Williams College*) 1912. Education. Enrolled candidate for A.M.
- Nellie Clayton Stokes *Providence*
A.B. (*Brown University*) 1923. Mathematics, Physics. Enrolled candidate for A.M.
- Marjorie Maud Stone *Providence*
A.B. (*Brown University*) 1910. Biblical Literature, English. Registered candidate for A.M.
- Ralph Randall Strong *Bristol*
A.B. (*Yale University*) 1914. Education. Registered candidate for A.M.
- Margaret Mary Sullivan *Providence*
A.B. (*Emmanuel College*) 1923. Education. Special graduate.
- John Axel Swahn *Woonsocket*
B.S. (*Rhode Island State College*) 1923. Chemistry, Philosophy, Mathematics. Enrolled candidate for Sc.M.
- Isabel Louise Taylor *Meshanticut Park*
Ph.B. (*Brown University*) 1918. English. Enrolled candidate for A.M.
- Sarah Ellen Taylor *Lonsdale*
A.B. (*Brown University*) 1904; A.M. 1910. Education. Special graduate.
- Muriel Theresa Tierney *Providence*
A.B. (*Brown University*) 1923. English. Registered candidate for A.M.
- Marshall Henry Tyler *Kingston*
B.S. (*Amherst College*) 1897. Education. Enrolled candidate for A.M.
- Roy Alfred Waggener *Ewing, Mo.*
A.B. (*La Grange College*) 1916; A.M. (*Brown University*) 1917. Biology. Registered candidate for Ph.D.

Frank Earl Waite

*Hastings, Mich.*A.B. (*University of Michigan*) 1915; A.M. (*Columbia University*) 1922. Sociology, Education. Registered candidate for Ph.D.

Thomas Franklin Walsh

*Providence*A.B. (*College de St. Paul, Paris, France*) 1895; Ph.D. (*University of Rome*) 1898. Education. Enrolled candidate for A.M.

Fred Grey Watts

*Wetumka, Okla.*A.B. (*Ottawa University, Kansas*) 1916. Philosophy, English. Enrolled candidate for A.M.

Evelyn Prescott Wiggin

*North Hampton, N. H.*A.B. (*Wellesley College*) 1921. Mathematics, Physics. Enrolled candidate for A.M.

George Dawley Wilcox

*Providence*A.B. (*Nashotah College*) 1923. Biblical Literature, Sociology. Registered candidate for A.M.

Howard Douglas Wood

*Newcastle, Me.*A.B. (*Bates College*) 1920; A.M. (*Brown University*) 1921. Education. Enrolled candidate for Ph.D.

Frances May Wright

*Palmer, Mass.*A.B. (*Brown University*) 1923. Mathematics, Physics. Enrolled candidate for A.M.

Harold Herbert Young

*East Providence*Ph.B. (*Brown University*) 1923. Economics. Registered candidate for M.B.A.

UNDERGRADUATES

[WITH THE DEGREES FOR WHICH THEY ARE REGISTERED:

A. = A.B. P. = PH.B. S. = SC.B.]

SENIORS: CLASS OF 1924

NAME		RESIDENCE
Everett Robert Alden	P	<i>Rahway, N. J.</i>
Carlton James Aldrich	S	<i>Woonsocket</i>
Cornelius Nevins Allen, Jr.	A	<i>Hopewell, N. J.</i>
Stanley Edward Ames	P	<i>Saranac Lake, N. Y.</i>
Elmer Webster Nathanael Anderson	P	<i>Pontiac</i>
William Gailor Anibal	P	<i>Saratoga, N. Y.</i>
Donald Davis Armstrong	P	<i>Providence</i>
Charles Russell Athern	P	<i>Providence</i>
Frederick Wanton Babcock	P	<i>Providence</i>
James Henry Barrett	P	<i>Port Chester, N. Y.</i>
Hilton St. John Barry	P	<i>Bloomfield, N. J.</i>
Reginald Barry	P	<i>Providence</i>
Charles Seagrave Barton	P	<i>Uxbridge, Mass.</i>
Armando Emilio Batastini	S	<i>Providence</i>
Gerald Webb Bennett	P	<i>Colorado Springs, Colo.</i>
Robert McKinley Bent	S	<i>Lynn, Mass.</i>
Raymond Albert Bergstrom	P	<i>East Greenwich</i>

NAME		RESIDENCE
Harry Bernard	S	<i>Pawtucket</i>
Walter Bernard	S	<i>Pawtucket</i>
Malcolm Lockwood Berrian	P	<i>Greenwich, Ct.</i>
Richard Pang-Nien Bien	P	<i>Tientsin, China</i>
Bruce MacMillan Bigelow	P	<i>Norwood</i>
Gordon Edward Bigelow	P	<i>Norwood</i>
Ernest Wade Bishop, Jr.	A	<i>Taunton, Mass.</i>
Carlton Holbrook Bliss	P	<i>Pawtucket</i>
Manuel Sergl Bloom	P	<i>Providence</i>
Henry Mortimer Bodwell	A	<i>Phenix</i>
Lawrence Richmond Brooks	S	<i>Templeton, Mass.</i>
Charles George Burgess	S	<i>Providence</i>
Morris Earl Burt	P	<i>Nashua, N. H.</i>
William Hodnett Butler	P	<i>Fall River, Mass.</i>
Frederick Seibert Butterweck	P	<i>Allentown, Pa.</i>
Maurice Hilliard Caldwell	P	<i>Providence</i>
Alden Aylworth Call	P	<i>Washington, D. C.</i>
Luigi Capasso	A	<i>Providence</i>
John Ditmars Carpenter	P	<i>Jamaica, N. Y.</i>
Joseph Frederick Starr Carter	P	<i>Asbury Park, N. J.</i>
Clarence Church Chaffee	P	<i>Rumford</i>
Edwin Asbury Cole, Jr.	P	<i>Housatonic, Mass.</i>
Roger Carter Conant	P	<i>Auburn, Me.</i>
Walter Vincent Connly	A	<i>Pawtucket</i>
Arlan Ralph Coolidge	P	<i>Orange, Mass.</i>
Edward Ranger Coop	S	<i>Providence</i>
John Fielder Cotton	A	<i>Providence</i>
Albert Jacob Cramer	P	<i>Stamford, Ct.</i>
George Merle Cravener	A	<i>Indiana, Pa.</i>
Cornelius Michael Cronin	P	<i>Providence</i>
Alfred Frederick De Milia	P	<i>Stamford, Ct.</i>
Charles Thomas Dempsey	P	<i>Thompsonville, Ct.</i>
Louis Leo Destremps	P	<i>Pittsfield, Mass.</i>
Charles George Doll	P	<i>Providence</i>
Earle Clinton Drake	A	<i>Brockton, Mass.</i>
William Allan Dyer, Jr.	P	<i>Syracuse, N. Y.</i>
Le Roy Eisenberg	P	<i>New York, N. Y.</i>
Vernon Stetter Ellington	P	<i>Wagoner, Okla.</i>
Joseph William Emsley	P	<i>Methuen, Mass.</i>
Ralph Greydon English	P	<i>Providence</i>
Elmer Gustave Ericson	P	<i>Waterbury, Ct.</i>
Carl Read Filmer	S	<i>Greene</i>
Alfred Langdon Fitzgerald	P	<i>New London, Ct.</i>

NAME		RESIDENCE
George Lakin Fitzgerald	A	<i>Milford, Mass.</i>
Mark Randolph Flather	P	<i>Nashua, N. H.</i>
Samuel Vaughton Fletcher	P	<i>Brooklyn, N. Y.</i>
William Fletcher, Jr.	P	<i>Providence</i>
George Francis Foley	P	<i>Fall River, Mass.</i>
Robert Billups Freeman	S	<i>Providence</i>
Jacob Friedman	P	<i>Providence</i>
David Griswold Goddard	P	<i>Pawtucket</i>
Carleton Goff	P	<i>Providence</i>
Louis Bliss Goff	P	<i>Providence</i>
Robert Hathaway Goff	P	<i>Providence</i>
Milton Goldberger	A	<i>Providence</i>
Robert Alvan Goodell	P	<i>North Brooksville, Me.</i>
Hans Jordan Gottlieb	P	<i>Milford, N. J.</i>
Sydney Norman Gourse	A	<i>Fall River, Mass.</i>
Ernest Weston Gray	P	<i>Scituate, Mass.</i>
Denison Warner Greene	P	<i>Providence</i>
Ivan Half	A	<i>Pittsburgh, Pa.</i>
George Edwin Ham	P	<i>Worcester, Mass.</i>
Edward Wayne Harlow	P	<i>Rockland, Mass.</i>
Frederic Morton Harvey	A	<i>Windsor, Ontario</i>
Hebert Dwight Haskins	P	<i>Rochester, N. Y.</i>
Harold Hassell	P	<i>Providence</i>
Louis Edmund Hathaway, Jr.	A	<i>Fall River, Mass.</i>
Thaddeus Jerome Hayden, Jr.	P	<i>North Providence</i>
Wesley Barnes Hayward	P	<i>Providence</i>
Wyndham Hayward	A	<i>Wickford</i>
Albert George Henderson	P	<i>Toronto, Ontario</i>
Clark Abraham Heydon	P	<i>Hackensack, N. J.</i>
Leonard Miller Hinson	P	<i>Brookline, Mass.</i>
Charles Edwin Hopkins	P	<i>Plainfield, Ct.</i>
Edward Andrew Hosp	P	<i>Newark, N. J.</i>
Francis Olney Hough	P	<i>New York, N. Y.</i>
Henry Howard, 2d	P	<i>Providence</i>
George Halsey Hunt	A	<i>Richmond Hill, N. Y.</i>
John Randolph Jellison	P	<i>Bar Harbor, Me.</i>
Malcolm Allan Jenckes	P	<i>Providence</i>
Earle Vincent Johnson	A	<i>Chicago, Ill.</i>
David Leslie Jones	P	<i>Chicago, Ill.</i>
Everard Carl Ketcham	P	<i>Brooklyn, N. Y.</i>
Edward Connell Keyworth	P	<i>Gardner, Mass.</i>
Bolus Alexander Kulasewski	S	<i>Crompton</i>
Carl Joseph Lalumia	P	<i>Lodi, N. J.</i>

NAME		RESIDENCE
Montague Lamport	P	<i>New York, N. Y.</i>
Herbert Day Lamson	P	<i>Exeter, N. H.</i>
Anthony Louis Laudati	P	<i>Peekskill, N. Y.</i>
William Laurens	A	<i>Fall River, Mass.</i>
Benjamin Murray Lease	A	<i>New York, N. Y.</i>
Vernon Alden Libby	P	<i>North Attleboro, Mass.</i>
Robert James Lloyd	S	<i>Woonsocket</i>
Harold Churchill Loring	P	<i>Brookline, Mass.</i>
Edgar John Lownes, Jr.	P	<i>Providence</i>
Josiah Lubin	P	<i>Worcester, Mass.</i>
Giacinto Andrea Lubrano	P	<i>Auburn</i>
Philip Alexander Lukin	P	<i>New York, N. Y.</i>
John Root Lyman	P	<i>Providence</i>
John Francis Lyons	P	<i>Providence</i>
Everett Bernard McAlevy	P	<i>Pawtucket</i>
Robert Lee McCarty, Jr.	P	<i>McKeesport, Pa.</i>
Burton Ross McCumber	S	<i>Elizabeth, N. J.</i>
John James McDonald	P	<i>East Providence</i>
Andrew Meredith MacDowell	P	<i>Point Pleasant, N. J.</i>
Roy Lawrence McGregor	P	<i>Providence</i>
Allan Austin MacKille	P	<i>New Haven, Ct.</i>
George Manly	P	<i>Hardwick, Mass.</i>
Arthur Earle Marley	P	<i>Providence</i>
Allen Randall Mathues	P	<i>Media, Pa.</i>
Robert Mazet, Jr.	P	<i>Brooklyn, N. Y.</i>
Mahlon Martin Meier	P	<i>Glen Ridge, N. J.</i>
Kern DeLos Metzger	A	<i>Cleveland, Ohio</i>
Anthony Vito Migliaccio	P	<i>Edgewood</i>
Raymond Lowe Miller	P	<i>Pawtucket</i>
John James Monk	P	<i>Fort Dodge, Iowa</i>
Harold Douglas Moore	S	<i>Auburn, Me.</i>
Harold Roy Moorhouse	P	<i>East Bridgewater, Mass.</i>
Courtney Malcolm Morgan	A	<i>Providence</i>
Edward Wellington Morris	A	<i>Providence</i>
Clifford Hollis Mosher	S	<i>Auburn</i>
Eloy John Murphy	S	<i>Newark, N. J.</i>
Arthur Remsen Nelson	P	<i>Brooklyn, N. Y.</i>
Francis Lawrence Nichols	P	<i>Brattleboro, Vt.</i>
Joe Nutter	P	<i>Falls City, Neb.</i>
Walter Wesley Olsen	P	<i>Gardner, Mass.</i>
James Francis O'Rourke	A	<i>Providence</i>
Bradford Fletcher Oxnard	A	<i>Rehoboth, Mass.</i>
Albert Edwin Parsons	P	<i>East Milton, Mass.</i>

NAME		RESIDENCE
William Avery Perkins	P	<i>Providence</i>
Edward Badstue Petersen	P	<i>Poughkeepsie, N. Y.</i>
Douglas Colin Pettigrew	A	<i>Newton Center, Mass.</i>
Edward Ringrose Place	P	<i>East Randolph, Vt.</i>
Samuel Albert Place	P	<i>Providence</i>
Albert Abraham Proctor	A	<i>Providence</i>
Francis Brae Rafferty	P	<i>Willimantic, Ct.</i>
William Dent Reichmann	P	<i>Kenilworth, Ill.</i>
William Irving Reid	P	<i>Pawtucket</i>
Quentin James Reynolds	P	<i>Brooklyn, N. Y.</i>
Frank Purves Ring	P	<i>Lakewood</i>
Gordon Ritchie, Jr.	P	<i>Bayside, N. Y.</i>
Robert Franklin Rodman, Jr.	P	<i>Lafayette</i>
Lionel Solomon Rosenberg	P	<i>Providence</i>
Warren Faunce Sanford	P	<i>Fall River, Mass.</i>
William Herbert Sargeant	P	<i>Attleboro, Mass.</i>
Norman Williams Saunders	P	<i>Providence</i>
Philip Saunders, Jr.	A	<i>Streator, Ill.</i>
George Sauté	P	<i>Centreville</i>
Ernest Frederic Schmults	P	<i>New York, N. Y.</i>
Carleton Scott	S	<i>Providence</i>
Wilfred Cuddeback Shattuck	P	<i>Lincoln Park, N. J.</i>
Nathan Benjamin Silberman	P	<i>Stamford, Ct.</i>
James Henry Sims	P	<i>Slatersville</i>
Ralph Christie Smith	P	<i>Cincinnati, Ohio</i>
Paul Longyear Snyder	P	<i>Kingston, N. Y.</i>
Robert Edward Soellner	P	<i>Schenectady, N. Y.</i>
Herbert James Somers	P	<i>Lynn, Mass.</i>
John Franklin Spellman	P	<i>Somers, Ct.</i>
Milton Edward Staples	P	<i>Providence</i>
Philip Edward Starrett	P	<i>Athol, Mass.</i>
Charles Sumner Stedman, Jr.	A	<i>Albany, N. Y.</i>
Robert Gallup Sturtevant	A	<i>Albany, N. Y.</i>
Ira Eugene Swaney	P	<i>Hudson, Mich.</i>
Charles Herbert Taylor, Jr.	A	<i>East Providence</i>
Bartlett Monroe Van Note	P	<i>Highland Falls, N. Y.</i>
Norman Pearl Vickery	P	<i>North Cohasset, Mass.</i>
Jerome Anthony Walsh	P	<i>Oneonta, N. Y.</i>
Miles Cutler Webb	P	<i>West Brookfield, Mass.</i>
Nathan Weinstein	P	<i>New York, N. Y.</i>
Russell West	P	<i>Longmeadow</i>
Heber Edward Wharton	P	<i>Baltimore, Md.</i>
Richard Lee Wheeler	A	<i>Tulsa, Okla.</i>

JUNIORS : CLASS OF 1925

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NAME		RESIDENCE
Lyman Huntington Whitney	P	<i>Boston, Mass.</i>
Samuel Everett Wilkins, Jr.	A	<i>Providence</i>
Samuel Herbert Willard	P	<i>Bryn Mawr, Pa.</i>
Frank Walter Williams	P	<i>Providence</i>
Earl Clifton Wilson	S	<i>Pawtucket</i>
Ernest John Woelfel	P	<i>Peabody, Mass.</i>
Jarvis Clinton Worden	P	<i>Fiskeville</i>
Charles Norris Young	P	<i>Providence</i>

JUNIORS : CLASS OF 1925

Harry Birger Abramson	P	<i>Cranston</i>
Maurice Abrich	P	<i>Providence</i>
Joseph Leo Ahearn	A	<i>Providence</i>
Berton Allen Aikens	P	<i>Detroit, Mich.</i>
Richard Houghton Annan	P	<i>Providence</i>
Raymond Brown Anthony	P	<i>Providence</i>
Richard Hall Anthony	P	<i>Providence</i>
Melvin Apple	P	<i>New York, N. Y.</i>
Edward Burleigh Armour	P	<i>Lynn, Mass.</i>
Dana Robbins Arnold	P	<i>Pawtucket</i>
Erwin Aymar	S	<i>Providence</i>
Wallace Boyd Bainton	P	<i>Providence</i>
Harry Justus Baldwin	P	<i>Colebrook, N. H.</i>
David Sweet Ballou	P	<i>Jewett City, Ct.</i>
William Seth Ballou	A	<i>Chester, Vt.</i>
Eugene Leonard Baptiste, Jr.	P	<i>Glen Ridge, N. J.</i>
Albert Edward Barnes	S	<i>Greenville</i>
Floyd Donald Bateman	P	<i>Wilmette, Ill.</i>
John Joseph Bauer	S	<i>New Bedford, Mass.</i>
Maurice Hotchkin Beavers	P	<i>Newark, N. J.</i>
Arthur Randall Beil	P	<i>Youngstown, Ohio</i>
Rowland Thompson Bellows	P	<i>Newark, N. J.</i>
Kingsley Lorillard Butts Bennett	A	<i>North Providence</i>
Graham Beresford	P	<i>Providence</i>
Newton Berman	P	<i>Brooklyn, N. Y.</i>
Walter Bishop	P	<i>Hoboken, N. J.</i>
Horace Daniel Blomstedt	S	<i>Rumford</i>
Marvin Bower	P	<i>Cleveland, Ohio</i>
Fredson Thayer Bowers	P	<i>New Haven, Ct.</i>
Paul Judson Braisted	P	<i>Red Bank, N. J.</i>
Stuart Richardson Briggs	P	<i>Providence</i>
David Brodsky	P	<i>Providence</i>

NAME		RESIDENCE
Carl Newton Brown	P	<i>Lansdowne, Pa.</i>
Francis Proctor Brown, Jr.	A	<i>Providence</i>
Marshall Stewart Brown, Jr.	A	<i>Yonkers, N. Y.</i>
Paul James Brown	A	<i>Brooklyn, N. Y.</i>
Ralph Manning Brown	P	<i>Chicago, Ill.</i>
Warren Wood Brown	P	<i>Newburgh, N. Y.</i>
Wilton Brown	P	<i>Providence</i>
William McKinley Browne	P	<i>Malden, Mass.</i>
Henry Hilmer Bucholz	S	<i>New Haven, Ct.</i>
James Graham Campbell	P	<i>Montclair, N. J.</i>
Gordon Coombs Capen	P	<i>New Bedford, Mass.</i>
Luciano Ralph Capone	A	<i>Bristol</i>
Warner George Carpenter	P	<i>New York, N. Y.</i>
Gilbert Eugene Case	P	<i>Greenwich, Mass.</i>
Vincent Cenci	P	<i>Providence</i>
Gordon Keith Chalmers	A	<i>Lansdowne, Pa.</i>
William Ellison Chalmers	A	<i>Lansdowne, Pa.</i>
Harold Edwin Chapman	P	<i>Providence</i>
Paul Chernov	A	<i>Providence</i>
William Urban Clair	P	<i>Sea Bright, N. J.</i>
John Robert Cobb	A	<i>Rockaway Beach, N. Y.</i>
Prentiss Stammers Colburn	A	<i>Hyde Park, Mass.</i>
John Everett Conklin	P	<i>Montclair, N. J.</i>
James Edwin Conley	P	<i>Pawtucket</i>
Richards Justice Conly	P	<i>Philadelphia, Pa.</i>
John Wilford Connolly	S	<i>Pawtucket</i>
Norman Alfred Converse	P	<i>New Bedford, Mass.</i>
Rufus Edward Corlew	P	<i>Sudbury, Mass.</i>
Thomas Irving Cornell	S	<i>North Attleboro, Mass.</i>
Daniel Michael Coughlin	P	<i>Fall River, Mass.</i>
Richard Tipping Cowell	P	<i>Williamstown, Mass.</i>
John Rudolph Cox	P	<i>Washington, D. C.</i>
Foster Edward Cramer	P	<i>Rahway, N. J.</i>
Andrew Joseph Crawley	P	<i>Central Falls</i>
Charles Haynes Cuddeback	P	<i>New York, N. Y.</i>
Stanley Dexter Culver	P	<i>Springfield, Mass.</i>
Roger Cummings	P	<i>Newton Center, Mass.</i>
Judson James Cutler	P	<i>Lynn, Mass.</i>
Curtis Frank Dalton	P	<i>Laconia, N.H.</i>
Soron Damarjian	A	<i>Woonsocket</i>
Walter Wesley Davis	A	<i>Great Neck, N. Y.</i>
Harry Luther Day	P	<i>Providence</i>
Thomas John Dougherty	A	<i>Beacon, N. Y.</i>

NAME		RESIDENCE
John Wester Douglas	P	Newark, N. J.
Carl Edward Dreher	S	Hackensack, N. J.
John Manning Driscoll	S	Fall River, Mass.
Claude Harold Durfey	P	Jewett City, Ct.
Arlo Russell Eason	P	Watertown, Mass.
Adolph William Eckstein	P	Elizabeth, N. J.
James George Ehrlicher	P	Pekin, Ill.
Shirley Sweet Elsbree	P	Providence
Alfred Elson, Jr.	S	Woburn, Mass.
Francis Irving Enslin	A	Derry, N. H.
Robert Lloyd Fair	P	Hoboken, N. J.
David Greene Fanning	P	Hingham Center, Mass.
Wilmot Everett Fanning, Jr.	P	Brooklyn, N. Y.
Thomas Bernard Farrell, Jr.	P	Central Falls
Reginald Charles Farrow	P	Newark, N. J.
Evan Lawrence Fellman	P	Oak Park, Ill.
Marshall Gordon Ferguson	P	New London, Ct.
Theodore Kennard Ferry	P	Rutherford, N. J.
Samuel Robert Finegold	A	Providence
John Smith Foley	P	North Cohasset, Mass.
William Foxall	A	Lebanon, Pa.
Wallace Herrington Frazee	A	Arlington, N. J.
John Alverson French	P	Mansfield, Mass.
Joseph Sidney Friedlander	P	Hopedale, Mass.
Douglas Randall Gates	A	Boston, Mass.
Milton Gerrish	A	Mansfield, Mass.
Albert Frederick Goff	P	Providence
Philip Bernard Goldberg	A	Providence
Charles Henry Goldstein	A	Gardiner, Me.
Joseph Goodman	P	Pawtucket
Albert Benedict Gordon	S	Danbury, Ct.
James Irving Gorton	P	White Plains, N. Y.
Malcolm Graham	P	Plattsburgh, N. Y.
Harry Nutting Greene	A	Slatersville
Walter Russell Greenwood	S	Pawtucket
Christopher Gunderson	A	East Greenwich
Thomas Richard Hadfield	P	Lawrence, Mass.
Lawrence Jones Hadley	P	Leominster, Mass.
John Raymond Hansbrough	P	Palmyra, Mo.
Eric Philip Hanson	S	Providence
Arthur Edward Hardy	P	Longmeadow
Kenneth Merle Harlowe	P	Providence
Roger Milton Harris	A	Dallas, Texas

NAME		RESIDENCE
Paul Vincent Hayden	S	<i>Pawtucket</i>
Charles Willard Hayes	P	<i>Highland Falls, N. Y.</i>
Charles Stuart Henderson	P	<i>Farmington, Ct.</i>
Clinton Leroy Henry	P	<i>Asbury Park, N. J.</i>
William Arnold Herridge	P	<i>Dover, N. J.</i>
Paul DeRenzi Higgins	P	<i>Quincy, Mass.</i>
Dempster Lloyd Hobron	P	<i>Niantic, Ct.</i>
Harry Libby Hoffman	P	<i>Cleveland, Ohio</i>
Harry Augustus Hohman	S	<i>Belmar, N. J.</i>
Norman Eugene Horan	S	<i>Providence</i>
Louis Carroll Horvath	P	<i>New Haven, Ct.</i>
Joseph Spencer Hukill	P	<i>Wilmington, Del.</i>
Harry Hunter	P	<i>Dorchester, Mass.</i>
Jack Hurst	P	<i>Norwood, Mass.</i>
George William Husker	P	<i>Waterbury, Ct.</i>
Wesley Gillis Hutchinson	A	<i>Providence</i>
Clarence Earl Ingalls	P	<i>Passaic, N. J.</i>
John Alexander Isherwood	P	<i>New Bedford, Mass.</i>
Charles Pomeroy Ives, 2d	A	<i>Guilford, Ct.</i>
William Elvin Jackson	S	<i>Bridgewater, Mass.</i>
Joseph Francois Jacquet	S	<i>Wood Ridge, N. J.</i>
Edward Daniel Jenkins	P	<i>Dover, N. J.</i>
Charles Cecil Johnson	P	<i>Point Pleasant, N. J.</i>
Charles Sumner Johnson	P	<i>Warren</i>
George Clarence Johnson	P	<i>Providence</i>
Thomas Lynch Johnson	A	<i>Lansford, Pa.</i>
Harvey Dickinson Jones	S	<i>South China, Me.</i>
James Paul Jones	P	<i>Sherwood Park, N. Y.</i>
Philip Carey Jones	A	<i>Hartford, Ct.</i>
Burton Caldwell Josselyn	P	<i>North Pembroke, Mass.</i>
Qoorken Kalunian	P	<i>Conimicut</i>
Emory Street Kates	P	<i>Collingswood, N. J.</i>
Walter Katznelson	P	<i>Providence</i>
John Howard Kazanjian, Jr.	A	<i>Newport</i>
Jackson Millimen Keefer, Jr.	P	<i>Dayton, Ohio</i>
Elliot Greenlaw Kelley	P	<i>Danielson, Ct.</i>
George Engs Kelley	P	<i>Hyannis, Mass.</i>
Robert Webb Kenny	P	<i>Somerville, Mass.</i>
George Williams Kilton	S	<i>Providence</i>
John Balch Kilton	P	<i>Providence</i>
Harold Kinder	P	<i>Attawaugan, Ct.</i>
Melvin Mason King	P	<i>Campello, Mass.</i>
Charles Harry Klump	P	<i>Cleveland, Ohio</i>

NAME		RESIDENCE
Lynne Martin Lambrecht	P	<i>Waterville, N. Y.</i>
Edmond Constantine Laurelli	A	<i>Providence</i>
Charles Roy Layer	P	<i>Newport</i>
Washington Irving Levy	A	<i>New York, N. Y.</i>
Roscoe Edwin Lewis	P	<i>Garfield Heights, D. C.</i>
Edson Clark Lockwood	P	<i>New Britain, Ct.</i>
Ralph Jerome Lockwood	A	<i>Brookline, Mass.</i>
George Boyan Lomas	P	<i>Pawtucket</i>
John Bernard Lord	P	<i>Waterbury, Ct.</i>
William Easton Louttit, Jr.	P	<i>Cranston</i>
Philip Ellsworth Loux	P	<i>Providence</i>
Fordyce Remsen Lozier	P	<i>Hackensack, N. J.</i>
Earl Tomlinson Lyon	S	<i>Bridgeport, Ct.</i>
William Patrick Lyons	S	<i>Attleboro, Mass.</i>
Edgar Vincent Frederick McCrillis	A	<i>Providence</i>
Laurence Francis McDermott	P	<i>Chicago, Ill.</i>
Arthur Francis McGinn	S	<i>Providence</i>
Benjamin Salvatore McKendall	A	<i>Providence</i>
Theodore Findlay MacLauchlan	P	<i>Hopedale, Mass.</i>
Jeremiah Paul Mahoney, Jr.	A	<i>Newport</i>
Israel Makowsky	A	<i>Bristol</i>
Russell Ballou Mallett	A	<i>Elizabeth, N. J.</i>
Donald Downing Manchester	P	<i>Providence</i>
Everett Tupper Marten	P	<i>Cleveland, Ohio</i>
George Perkins Merchant	P	<i>Gloucester, Mass.</i>
Mason Brown Merchant	P	<i>Providence</i>
John Irving Merritt	A	<i>New Canaan, Ct.</i>
Homer Parant Metzger	P	<i>Asbury Park, N. J.</i>
Samuel Parant Metzger	P	<i>Asbury Park, N. J.</i>
Louis Micone	A	<i>Newark, N. J.</i>
Holrick James Miller	P	<i>Providence</i>
Warwick Barse Miller	P	<i>Providence</i>
John Durward Miner, Jr.	S	<i>East Greenwich</i>
Wilfred Arnold Miner	P	<i>East Greenwich</i>
Charles Samuel Mirabile	P	<i>Thompsonville, Ct.</i>
George Henry Mitchell	P	<i>New York, N. Y.</i>
Louis Pio Monti	S	<i>Westerly</i>
Charles Henry Morhouse	P	<i>Ticonderoga, N. Y.</i>
Charles Chauncey Myers	P	<i>Ardmore, Pa.</i>
Harold Charles Neubauer	P	<i>Hoboken, N. J.</i>
Ethelbert LeRoy Nevens	P	<i>East Milton, Mass.</i>
Alden Holmes Norton	P	<i>Lynn, Mass.</i>
Newell Atwood Norton	P	<i>Guilford, Ct.</i>

NAME		RESIDENCE
John Edward O'Brien	P	<i>Providence</i>
William Decrevi Goddard Oldham	A	<i>East Providence</i>
Joseph Emanuel Olsson	P	<i>Providence</i>
Arthur Worthington Packard	P	<i>Dorchester, Mass.</i>
Albert Lauriston Parks, Jr.	A	<i>Hyde Park, Mass.</i>
Reginald Sutton Paulison	P	<i>Hackensack, N. J.</i>
John Elton Pemberton	P	<i>Pawtucket</i>
Sidney Joseph Perelman	A	<i>Norwood</i>
Charles Fish Perrine	A	<i>Red Bank, N. J.</i>
Ralph Joseph Petrucci	A	<i>Bristol</i>
Herman Moritz Pflugi	P	<i>Hackensack, N. J.</i>
Walter Valentine Ploettner	P	<i>Attleboro, Mass.</i>
John Theodore Pohlman	S	<i>New Haven, Ct.</i>
Addison Brown Poland	P	<i>Newark, N. J.</i>
George Lewis Porter	A	<i>St. John, N. B.</i>
Stanley Bryant Post	P	<i>Spencerville, Ohio</i>
Howard Vinton Potter	P	<i>Auburn</i>
George Angelo Pournaras	S	<i>Providence</i>
Aylwin Probert	P	<i>Berkeley, Calif.</i>
Alfred Lewis Rafuse	P	<i>Norwood, Mass.</i>
Cassius Leland Ramsdell, Jr.	S	<i>North Scituate</i>
Charles Rand	A	<i>Providence</i>
Joseph Francis Ray	S	<i>Middletown</i>
Eugene Francis Reynolds	S	<i>Providence</i>
Hamilton Seward Rice	S	<i>Pawtucket</i>
Martin Burnham Rice	P	<i>Detroit, Mich.</i>
George White Richardson	S	<i>Providence</i>
John Cole Richardson, 3d	P	<i>Cincinnati, Ohio</i>
John Whitney Richmond	P	<i>Providence</i>
James Holton Rogers	P	<i>North Troy, N. Y.</i>
Benjamin Douglas Roman	A	<i>Hyde Park, Mass.</i>
Harold Ruger	S	<i>Waterbury, Ct.</i>
Frank Nelson Ryan	P	<i>Lynn, Mass.</i>
Leslie Baxter Ryder	P	<i>Yarmouthport, Mass.</i>
Adin Samuel Sargeant	P	<i>Attleboro, Mass.</i>
Joseph Valentine Sauter	P	<i>Mount Vernon, N. Y.</i>
Parkman Sayward	P	<i>Wayland, Mass.</i>
Arthur Schiff	P	<i>New York, N. Y.</i>
Isadore Schwartz	P	<i>Woonsocket</i>
Antonio Edward Serracante	P	<i>Ponce, P. R.</i>
Bernard Shaset	P	<i>Providence</i>
Ernest Leonard Shein	A	<i>Providence</i>
James Hurlon Sheldon	P	<i>Auburn, N. Y.</i>

NAME		RESIDENCE
Adelbert Pryce Simmons	P	<i>Philadelphia, Pa.</i>
Charles Gilbert Smith	S	<i>St. Louis, Mo.</i>
Edwin Allen Smith, Jr.	P	<i>Newark, N. J.</i>
Gordon Alexander Smith	P	<i>Asbury Park, N. J.</i>
Hancel Bechtel Smith	A	<i>South Orange, N. J.</i>
LeGrand Barnum Smith	P	<i>Poughkeepsie, N. Y.</i>
Malcolm Edward Smith	P	<i>Rowley, Mass.</i>
Lester Martin Sornborger	P	<i>Springfield, Mass.</i>
Herbert Winfield Spink	A	<i>Wickford</i>
Carleton Lewis Staples	P	<i>Taunton, Mass.</i>
Ralph Ellsworth Stoddard	P	<i>Rockland, Mass.</i>
Frederick Sweet	P	<i>Ardmore, Pa.</i>
Richmond Holbrook Sweet	P	<i>Providence</i>
Thomas William Taylor	P	<i>Chestnut Hill, Mass.</i>
Maurice Bainton Thompson	P	<i>New York, N. Y.</i>
Norman Orwig Tietjens	P	<i>Napoleon, Ohio</i>
James Edmond Townsend	P	<i>Glen Cove, N. Y.</i>
Irving Joseph True	S	<i>Providence</i>
James Blair Trumbower	P	<i>Haddonfield, N. J.</i>
Joseph Downing Tuckerman	P	<i>Media, Pa.</i>
John Carver Vining	P	<i>Lynn, Mass.</i>
Philip Leslie Voelker	S	<i>Woonsocket</i>
John Henry Wachter	P	<i>Toledo, Ohio</i>
William Hurd Wagenknecht	P	<i>Adams, Mass.</i>
Earl William Wakelin	P	<i>Dover, Mass.</i>
Everett Ross Walker	P	<i>Pawtucket</i>
Arnold Forrest Waring	A	<i>New Bedford, Mass.</i>
William Charles Waring, Jr.	A	<i>Providence</i>
Robert Pegram Webb	P	<i>Newport</i>
Paul John August Weber	P	<i>Hackensack, N. J.</i>
Walter Weber	S	<i>Elizabeth, N. J.</i>
Howard Fleming Weeks	P	<i>White Plains, N. Y.</i>
Henry Welch	P	<i>Newburyport, Mass.</i>
Edward Joseph West	P	<i>Edgewood</i>
Harold Berkeley Wetherbee	P	<i>Albany, Ga.</i>
Richard Lincoln Wheelock	P	<i>New York, N. Y.</i>
Kenneth Parks Whiting	P	<i>Yonkers, N. Y.</i>
Walter Frost Whitney	P	<i>Leominster, Mass.</i>
Trask Handforth Wilkinson	P	<i>West Medway, Mass.</i>
Robert Ingle Williams	P	<i>White Plains, N. Y.</i>
Joseph Harold Wilson	A	<i>Lansdowne, Pa.</i>
William Roland Winsor	P	<i>Brockton, Mass.</i>
Morris Edward Yaraus	A	<i>Providence</i>

NAME		RESIDENCE
Allan Thomas Yates	A	<i>Salem, Mass.</i>
Harold Alexander Zantow	P	<i>Taunton, Mass.</i>
Oscar John Zeiller	P	<i>Bayside, N. Y.</i>

SOPHOMORES: CLASS OF 1926

Angelo Antonio Adamo	P	<i>Providence</i>
Gaspar Mathew Adamo	P	<i>Brooklyn, N. Y.</i>
Quincy Adams	P	<i>Larchmont, N. Y.</i>
Horace Freund Altman	P	<i>Clinton, Mass.</i>
Ross Andrew	P	<i>Pawtucket</i>
Clarence Frederick Andrews	P	<i>North Haven, Ct.</i>
Frank Cornell Andrews	A	<i>East Providence</i>
Henry Cushman Anthony	P	<i>Providence</i>
Henry Nathaniel Arnold	P	<i>Providence</i>
Edward Rudolph Austin	P	<i>Providence</i>
William Bailey Avery	S	<i>Cranford, N. J.</i>
Warren Babcock	P	<i>Hackensack, N. J.</i>
Robert Bacon, Jr.	P	<i>Lansford, Pa.</i>
Percy Lawrence Bailey, Jr.	A	<i>Newport</i>
Charles Kiely Baker, Jr.	P	<i>Auburn</i>
Henry Donald Barbadoro	P	<i>Milford, Mass.</i>
Horace Henry Barker	S	<i>Pawtucket</i>
Stewart Leighton Barker	S	<i>Burlington, Me.</i>
James Magner Barry	A	<i>Pawtucket</i>
Carl Frank Bayerschmidt	A	<i>Providence</i>
Wilfred Joseph Bazinet	S	<i>Providence</i>
Thomas Edward Beehan	A	<i>Providence</i>
Charles Spencer Belden	P	<i>New York, N. Y.</i>
Eugene Porter Bell	P	<i>Hastings-on-Hudson, N. Y.</i>
Samuel Foster Berard	P	<i>Providence</i>
Robert John Berg	P	<i>Brooklyn, N. Y.</i>
Horace Palmer Bill	S	<i>Norwich, Ct.</i>
Ernest Wesley Blanchard	P	<i>Providence</i>
Samuel Blassberg	P	<i>Turners Falls, Mass.</i>
William Ranch Boger	P	<i>Lebanon, Pa.</i>
Samuel Burritt Boynton	A	<i>Woodbridge, N. J.</i>
Osborne Wesley Briden	S	<i>Pawtucket</i>
Philip Grossman Bronstein	P	<i>Boston, Mass.</i>
Frank Abbott Brown	P	<i>Chicago, Ill.</i>
James Allen Brown	P	<i>Worcester, Mass.</i>
Waldo Franklin Brown	P	<i>Naugatuck, Ct.</i>

NAME		RESIDENCE
Elmer Irving Browning	P	<i>Norwich Town, Ct.</i>
Thomas William Buckley	P	<i>Providence</i>
Herbert Coddington Bullard	A	<i>North Attleboro, Mass.</i>
Calef Mortimer Burbank	P	<i>Auburn</i>
Garrett Davis Byrnes	P	<i>Orange, N. J.</i>
James Corcoran Callahan	A	<i>Newport</i>
Ulric Louis Calvosa	P	<i>Brooklyn, N. Y.</i>
Herbert Winfield Campbell	P	<i>Newark, N. J.</i>
Mario Paul Canai	P	<i>Providence</i>
William Roether Carman	P	<i>Brooklyn, N. Y.</i>
Ambrose William Carroll	A	<i>Millville, Mass.</i>
Purvis Jewett Carruth	A	<i>Clinton, Mass.</i>
Harold John Carson	P	<i>East Hartford, Ct.</i>
Edward Thomas Cary	P	<i>Brooklyn, N. Y.</i>
George Livingston Cassidy	A	<i>Providence</i>
Edward Kipp Chace	P	<i>East Orange, N. J.</i>
William George Chace	P	<i>Edgewood</i>
Bruce Woodallen Chapman	P	<i>New York, N. Y.</i>
John Henning Cogan	P	<i>Saratoga Springs, N. Y.</i>
Hermon Cohen	P	<i>Nashua, N. H.</i>
Joseph William Cohen	P	<i>Providence</i>
Mark Fenton Coles	P	<i>Washington, D. C.</i>
Charles Eugene Conklin	P	<i>Brooklyn, N. Y.</i>
Richard Knight Connell	P	<i>Providence</i>
Ormond Burgess Cook	A	<i>Providence</i>
Edward Sherwood Coons, Jr.	P	<i>Ballston Spa, N. Y.</i>
Kenneth Austin Corlew	A	<i>Sudbury, Mass.</i>
William Cornelius Coroley	P	<i>Niantic, Ct.</i>
George Cyrus Cranston	A	<i>Wickford</i>
Benjamin Franklin Crehore, Jr.	P	<i>La Grange, Me.</i>
Ralph Robinson Crosby	P	<i>Osterville, Mass.</i>
Frederick Stephen Cross	P	<i>East Cleveland, Ohio</i>
William Elliott Cruise	P	<i>New London, Ct.</i>
Winthrop Cook Culbert	P	<i>South Attleboro, Mass.</i>
Gerolano Joseph Curreri	A	<i>Providence</i>
Emery Borden Danzell, Jr.	A	<i>New Bedford, Mass.</i>
Francis Davis	P	<i>Sioux City, Iowa</i>
Lloyd Warren Davis	P	<i>Providence</i>
Charles Hoben Day, Jr.	P	<i>Watertown, Mass.</i>
Robert Fuller Day	P	<i>Providence</i>
William Joseph Dee	P	<i>Peabody, Mass.</i>
Americo Del Selva	A	<i>Providence</i>
William Lynch DeProsse	P	<i>Hudson, N. Y.</i>

NAME		RESIDENCE
Benjamin Albert DeRaffaele	A	<i>Providence</i>
Lionel Edward Depew	P	<i>Dalton, Mass.</i>
Gerald Francis Disney	P	<i>Rochester, N. Y.</i>
Charles Bradley Dixon	P	<i>Rutherford, N. J.</i>
Elmer Thomas Duggan	P	<i>Concord, Mass.</i>
Michael Theodore Dziadik	P	<i>Seymour, Ct.</i>
Alan Hovey Eaton	A	<i>Mansfield Center, Ct.</i>
Harry Eatough	P	<i>Pawtucket</i>
Leslie Thomas Fagan	P	<i>Waterbury, Ct.</i>
Morton Edgar Fain	A	<i>Providence</i>
Sydney Alexander Feig	P	<i>New York, N. Y.</i>
Noel Macdonald Field	A	<i>Providence</i>
Joseph De Hart Fisler	A	<i>Clayton, N. J.</i>
Richard Ralph Fitzpatrick	P	<i>Woonsocket</i>
Harold Steadman Fleming	P	<i>New Haven, Ct.</i>
George Gordon Foshay	P	<i>New Haven, Ct.</i>
Henri Désiré Fournét, Jr.	P	<i>White Plains, N. Y.</i>
Joseph Freedman	A	<i>Cranston</i>
Isadore Friedman	P	<i>Providence</i>
James Henry Gaffney	P	<i>Bala, Pa.</i>
Everett Browning Gardner	A	<i>Providence</i>
John Raymond Gardner	P	<i>Patten, Me.</i>
Edwin Kemble Gedney	S	<i>Hunter, N. Y.</i>
Franklin Brown Gelder	A	<i>Forest City, Pa.</i>
Albert Geremia	P	<i>Providence</i>
Alfred Carl Gienow	S	<i>River Edge, N. J.</i>
Abner Ira Gilbert	A	<i>New York, N. Y.</i>
Herbert Foster Gillard	P	<i>Providence</i>
Robert Ogden Gilmore	A	<i>East Providence</i>
Kent Godfrey	P	<i>White Plains, N. Y.</i>
Godfrey Goff	P	<i>Providence</i>
Abraham Goldman	A	<i>New Haven, Ct.</i>
Jacob Goodman	P	<i>Pawtucket</i>
Harold Soule Goodwin	P	<i>Thompsonville, Ct.</i>
Matthew Wilson Goring	A	<i>Methuen, Mass.</i>
Garrett Thomson Green	P	<i>Newark, N. J.</i>
Kenneth Dorchester Greene	P	<i>Palmer, Mass.</i>
Daniel Dean Grubbs	P	<i>Staten Island, N. Y.</i>
John George Gude	P	<i>Newark, N. J.</i>
Cameron Guiler	A	<i>Newton Center, Mass.</i>
Malcolm Kasper Balthazar Gurjian	P	<i>East Providence</i>
William Spencer Gurnee	P	<i>Hawthorne, N. J.</i>
Joseph Gale Gurney	P	<i>Brockton, Mass.</i>

NAME		RESIDENCE
Emile Seth Hall	P	<i>New York, N. Y.</i>
John Edwin Case Hall	P	<i>Providence</i>
Russell Halliday	P	<i>Cairo, Ill.</i>
Edwin Halpert	A	<i>Central Falls</i>
Guy Cawgill Hamilton	P	<i>Long Island City, N. Y.</i>
Mather Hanchett	S	<i>Providence</i>
John Harold Hargrove	P	<i>Brooklyn, N. Y.</i>
William Roland Harrell	A	<i>Woonsocket</i>
Arthur Stuart Hassell	P	<i>Providence</i>
Russell Stansbury Hawkins	P	<i>Brooklyn, N. Y.</i>
Arthur Frederick Haworth	P	<i>Dorchester, Mass.</i>
Frank Thomas Hayes	P	<i>Saranac Lake, N. Y.</i>
Paul Hayne, Jr.	P	<i>Haddonfield, N. J.</i>
Abraham Hecht	P	<i>Stamford, Ct.</i>
Gerald Alton Higgins	P	<i>Providence</i>
John Laurence Hood, Jr.	S	<i>Pawtucket</i>
Perry Samuel Horenstein	P	<i>Providence</i>
Herbert Pierce Horton	P	<i>Leominster, Mass.</i>
Norman Oliver Howard	P	<i>Eastondale, Mass.</i>
George Wolfgang Howe	P	<i>New York, N. Y.</i>
Thomas Norville Hubbard	P	<i>Detroit, Mich.</i>
Edward Pitman Hulshart	P	<i>Farmingdale, N. J.</i>
George Howard Hume	P	<i>New Bedford, Mass.</i>
Albert Foster Hunt, Jr.	P	<i>Bridgewater, Mass.</i>
John Tillinghast Hunt	A	<i>Richmond Hill, N. Y.</i>
Theodore Alfred Hunt	P	<i>Providence</i>
Ferdinand Brian Hurt	P	<i>Cicero, Ill.</i>
Domenico Antonio Ionata	S	<i>Providence</i>
Jacob Mark Jacobson	A	<i>New Bedford, Mass.</i>
Arthur Eugene Jensen	P	<i>Gloucester, Mass.</i>
Albert Frederick Jerry	P	<i>Plattsburgh, N. Y.</i>
Charles Harold Johnson	P	<i>Brooklyn, N. Y.</i>
Howard Wentworth Johnston	A	<i>Providence</i>
Leslie Allen Jones	P	<i>Salem, Mass.</i>
Russell Paul Jones	P	<i>Greenfield, Mass.</i>
Walter Smalley Jones	P	<i>East Northfield, Mass.</i>
Leonard Kalisch, Jr.	P	<i>Newark, N. J.</i>
Israel Kapstein	A	<i>Providence</i>
Wendell Avard Kaufer	A	<i>Providence</i>
Rowland Greene Keach	S	<i>Providence</i>
Edward Louis Keene	P	<i>Providence</i>
Lloyd Denslow Keigwin	P	<i>Mount Vernon, N. Y.</i>
Lester Joseph Kelly	P	<i>New York, N. Y.</i>

NAME		RESIDENCE
Ralph Gordon Kenney	S	<i>Providence</i>
Joseph Christopher Kent	P	<i>Providence</i>
Frederick Lewis Kilbourn, Jr.	P	<i>Pawtucket</i>
Arthur Edward Kilpatrick	P	<i>Ansonia, Ct.</i>
John William Kinley	P	<i>Jersey City, N. J.</i>
Merrill James Kiser	A	<i>Alvin, Ill.</i>
August Edward Kittel	P	<i>Torrington, Ct.</i>
Kenneth Kennedy Knickerbocker	P	<i>Chicago, Ill.</i>
Robert Charles Knox	P	<i>Providence</i>
Matthew Kolodziczky	P	<i>Providence</i>
Jerome Milton Kornblum	P	<i>Brooklyn, N. Y.</i>
Donald McCullough Lannin	P	<i>Rochester, N. Y.</i>
Henry Keeney Lathrop	P	<i>Windham, Ct.</i>
Raymond Shaw Lees	P	<i>Brooklyn, N. Y.</i>
George Francis Leis, Jr.	P	<i>Saranac Lake, N. Y.</i>
Joseph Brown Lennon	P	<i>Watervliet, N. Y.</i>
Hugo Ephraim Levander	P	<i>Providence</i>
Howard Gardner Lewis	P	<i>Lawrence, Mass.</i>
Morris George Lewis	P	<i>New York, N. Y.</i>
Reginald Albert Lewis	P	<i>Livermore Falls, Me.</i>
Stephen Mason Lincoln	A	<i>Providence</i>
Earl Russell Lofquist	P	<i>East Providence</i>
William Bruce Loomis	P	<i>Wilkesbarre, Pa.</i>
Donald Goodwin Lord	P	<i>Natick, Mass.</i>
George Young Loveridge	P	<i>Waterbury, Ct.</i>
Joseph Jeremiah King Lynch	P	<i>Foxboro, Mass.</i>
William John McCollum	A	<i>Uxbridge, Mass.</i>
Milton Theodore MacDonald	A	<i>New Bedford, Mass.</i>
Preston Peabody MacDonald, Jr.	P	<i>East Braintree, Mass.</i>
Lloyd John McIsaac	P	<i>East Boston, Mass.</i>
Paul Cameron MacKay	P	<i>Providence</i>
Malcolm Arthur McKenzie	P	<i>Providence</i>
Andrew Harvey McNaughton	P	<i>Haverford, Pa.</i>
John Cannon McOsker	A	<i>Providence</i>
Maurice Albert McPeck	P	<i>Marion, Mass.</i>
John Alister Macdonald	P	<i>Dedham, Mass.</i>
Abraham Louis Madfis	P	<i>Newton, Mass.</i>
Thomas Joseph Maguire	P	<i>Brooklyn, N. Y.</i>
Clyde Alfred Maitland	S	<i>Washington, D. C.</i>
Pasquale Joseph Marra	P	<i>New Haven, Ct.</i>
Charles Hunt Marshall, Jr.	P	<i>New York, N. Y.</i>
John Montgomery Mason	P	<i>Taunton, Mass.</i>
Horace Sawyer Mazet	P	<i>Brooklyn, N. Y.</i>

NAME		RESIDENCE
Ellis Frederic Millett	P	<i>Springfield, Mass.</i>
Kenneth Smith Minard	A	<i>Boston, Mass.</i>
Howard Morris Mohrfeld	P	<i>Collingswood, N. J.</i>
Edward Alexander Moir	P	<i>Clinton, Mass.</i>
Edmund Joseph Moriarty	P	<i>Danvers, Mass.</i>
Allen Conrad Morrill	A	<i>Worcester, Mass.</i>
George Duff Morrow	A	<i>Pawtucket</i>
Sanford Dante Mosher	P	<i>Monroe, N. Y.</i>
Edward Conrad Mulhausen	P	<i>Brooklyn, N. Y.</i>
John Herman Muller	S	<i>Bayside, N. Y.</i>
James Winford Nagle	P	<i>Providence</i>
Gordon Hunter Needham	S	<i>Clinton, Mass.</i>
Harold Edward Neese	P	<i>Irrington, N. J.</i>
Alfred Clarence Nispel	P	<i>Norfolk, Mass.</i>
Edward Duncan Norton-Taylor	P	<i>Maplewood, N. J.</i>
Hermon Maurice Noyes	P	<i>Springfield, Mass.</i>
Benjamin Lombard Nyman	P	<i>Washington, D. C.</i>
Hendrick Atwell Olney	S	<i>Mansfield, Mass.</i>
Clarence Parker Orr	P	<i>Greenwood</i>
Frank John Ortolano	A	<i>Hoboken, N. J.</i>
Isadore Maurice Osiason	A	<i>Fall River, Mass.</i>
George Arthur Paine	P	<i>Edgewood</i>
Edward Sill Parvis	P	<i>Wilmington, Del.</i>
Rudolph Jack Payor	P	<i>New York, N. Y.</i>
James Hallett Peers	A	<i>Edgewood</i>
Joseph Perlman	P	<i>Stamford, Ct.</i>
Erskine Mar Perry	P	<i>Nyack, N. Y.</i>
Anthony Edwin Peters	P	<i>Brockton, Mass.</i>
Edward Wells Peters	A	<i>Haverhill, Mass.</i>
Edward Thomas Peterson	S	<i>Woburn, Mass.</i>
Herbert Carl Pfeil	P	<i>Newark, N. J.</i>
Edwin Thomas Phillips	A	<i>Brooklyn, N. Y.</i>
Frank Haworth Pickles	P	<i>Ashton</i>
Frederick Leavens Pierce, Jr.	P	<i>Providence</i>
Wendell Forster Pierce	P	<i>Cliftondale, Mass.</i>
Richard Holden Place	A	<i>East Randolph, Vt.</i>
Campbell Posey	P	<i>Jamaica, N. Y.</i>
Marden Thomas Prentiss	P	<i>Plainfield, Ct.</i>
John Crowell Prior	P	<i>Edgewood</i>
George Hawkins Prosser	P	<i>Chicopee Falls, Mass.</i>
Freeman Theodore Putney	P	<i>South Weymouth, Mass.</i>
William James Quill	P	<i>Grafton, Mass.</i>
Milton Elis Raffel	P	<i>Waterbury, Ct.</i>

NAME		RESIDENCE
Edson Richard Rand	P	<i>Cummaquid, Mass.</i>
Wallace Everett Randall	P	<i>Providence</i>
Edwin Pollard Weller Readell	P	<i>Norwood, Mass.</i>
David Leicester Reid	P	<i>Quincy, Mass.</i>
Joseph Dyer Reynolds	A	<i>Central Falls</i>
Jean Haskell Ricker	P	<i>Danvers, Mass.</i>
Donald Morey Riggs	P	<i>Waterbury, Ct.</i>
William Ripley, Jr.	P	<i>Hingham Center, Mass.</i>
William Francis Robotham	P	<i>Unionville, Ct.</i>
Oliver Hazard Perry Rodman	A	<i>Lafayette</i>
Oscar Rogol	P	<i>Seymour, Ct.</i>
Frederick Henry Rohlf	P	<i>Brooklyn, N. Y.</i>
Elmer Donald Ross	P	<i>Providence</i>
William Rucker	P	<i>Little Ferry, N. J.</i>
Myron Jackson Ruckstull	P	<i>Richmond Hill, N. Y.</i>
Andrew James Rusbason	P	<i>Torrington, Ct.</i>
Vernon Franklin Russell	P	<i>Grafton, Mass.</i>
Frank Allen Russo	P	<i>Brooklyn, N. Y.</i>
Victor Donald Russo	P	<i>Brooklyn, N. Y.</i>
Louis Alfred Sage	P	<i>White Plains, N. Y.</i>
Clement Stacy Sargent	S	<i>Newburyport, Mass.</i>
Philip Maxwell Schulman	P	<i>Cleveland, Ohio</i>
Fred Sciotti	S	<i>Providence</i>
Charles Kirkpatrick Scotcher	A	<i>Brookline, Mass.</i>
John Henry See	P	<i>Providence</i>
Jacob Shapiro	A	<i>Providence</i>
William Morris Smira	P	<i>Providence</i>
Arthur William Smith	S	<i>East Wareham, Mass.</i>
Channing Sylvester Smith	P	<i>Newton Center, Mass.</i>
Elmer Reid Smith	P	<i>Cranston</i>
James Edward Smith	A	<i>Brookline, Mass.</i>
Percival Franklyn Smith	A	<i>Providence</i>
Philip Augustus Smith	P	<i>Longmeadow</i>
Rodney Ford Smith	P	<i>Seneca Falls, N. Y.</i>
Hymen Jerrard Smolensky	P	<i>Worcester, Mass.</i>
Harold Marshall Soars	P	<i>Muncy, Pa.</i>
Harry Arthur Soper, Jr.	P	<i>Waterbury, Ct.</i>
Paul Jasper Spencer	A	<i>East Greenwich</i>
David Ludlow Stackhouse	P	<i>Edgewood</i>
Harold Maxwell Steinberg	P	<i>Bayonne, N. J.</i>
William Alexander Stephens	P	<i>Brooklyn, N. Y.</i>
Samuel Sidney Stewart, Jr.	P	<i>Flint, Mich.</i>
Charles Harrison Stickel	P	<i>Lynn, Mass.</i>

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NAME		RESIDENCE
James Madison Stifler, Jr.	P	<i>Evanston, Ill.</i>
Edgar Leroy Stofler	S	<i>Attleboro, Mass.</i>
William Frederick Storms	P	<i>Norwich, Ct.</i>
Harry Sugarman	P	<i>New Haven, Ct.</i>
Myron Sulzberger, Jr.	A	<i>New York, N. Y.</i>
George Edmund Taber	P	<i>Pawtucket</i>
John Oreachia Talbot	A	<i>South Weymouth, Mass.</i>
Jacob Samuel Temkin	A	<i>Providence</i>
Ernest Devine Thompson	A	<i>Providence</i>
Leonard Bicknell Thompson	P	<i>Hingham, Mass.</i>
Wesley Reeve Thompson	P	<i>Morristown, N. J.</i>
Bruce Erwin Tietjens	P	<i>Napoleon, Ohio</i>
Pratt Lorenzo Tobey	P	<i>Great Barrington, Mass.</i>
John Michael Toohey	A	<i>Fall River, Mass.</i>
William John Turtle	P	<i>Quincy, Mass.</i>
Nathaniel Ridley Underdown	P	<i>New Bedford, Mass.</i>
George Francis Viault	P	<i>Pawtucket</i>
Arnold Henry Wallack	A	<i>New York, N. Y.</i>
James Anthony Walsh	P	<i>Providence</i>
William Franklin Warden	P	<i>Akron, Ohio</i>
Wesley Harold Webb	P	<i>West Brookfield, Mass.</i>
William Harold Weidman	P	<i>West Collingswood, N. J.</i>
Thomas Edward Wenzel	P	<i>Norwood, Mass.</i>
Merton Eugene Whipple	P	<i>Attleboro, Mass.</i>
Chester Brandon Whitman	P	<i>Saylesville</i>
Nathaniel Brackett Whiton	P	<i>Hingham, Mass.</i>
Robert Thomas Daubigny Wickenden	P	<i>Brooklyn, N. Y.</i>
William Beck Widnall	P	<i>Hackensack, N. J.</i>
Paul Albion Williams	A	<i>East Northfield, Mass.</i>
Edwin Wintermute	A	<i>Newark, N. J.</i>
Howard Bishop Witter	P	<i>Millbury, Mass.</i>
Frederick Lewis Wood	S	<i>Hopedale, Mass.</i>
Stuart Mead Wright	A	<i>New York, N. Y.</i>
Wellesley Wright	A	<i>Peace Dale</i>
Clement Winter Young	P	<i>Hackensack, N. J.</i>
Harlow Creighton Young	P	<i>Hartland, Me.</i>

FRESHMEN : CLASS OF 1927

George Edward Adams	P	<i>New York, N. Y.</i>
Morris Calvin Adams	P	<i>Lancaster, N. H.</i>
Sedgwick Steele Adams	P	<i>West Barrington</i>
Stanley Twitchell Adams	A	<i>Saxtons River, Vt.</i>

NAME		RESIDENCE
John Craig Aisthorpe	P	<i>Cairo, Ill.</i>
Wiley Brown Aldrich	P	<i>Uxbridge, Mass.</i>
Maynard Stanley Alexander	P	<i>Wilmington, Del.</i>
Antonio Aliberti	A	<i>Portland, Me.</i>
Victor Leonard Allen	P	<i>Providence</i>
Richard Rathbone Almy	S	<i>North Providence</i>
Luis Andrade	S	<i>Mexico City, Mexico</i>
Howard Lucius Andrews	S	<i>East Greenwich</i>
Esmond Carter Appleyard	A	<i>Glen Ridge, N. J.</i>
Nicholas Michael Atella	S	<i>Providence</i>
Henry George Atha	S	<i>Groton, Ct.</i>
Abner Barnaby Auty	S	<i>Providence</i>
Clifton Vinal Bagley	P	<i>Auburn</i>
Jeremy Felix Bagster-Collins	A	<i>Montrose, N. Y.</i>
Robert Kenneth Bailey	P	<i>Trenton, N. J.</i>
Donald Irving Ball	P	<i>Providence</i>
Richard Edward Barnes	P	<i>Cleveland, Ohio</i>
Fred Howard Barrows	A	<i>Providence</i>
Arthur John Barry, Jr.	P	<i>New York, N. Y.</i>
Harry Hunter Bartlett	P	<i>Nantucket, Mass.</i>
Whitney Dorus Bascom	P	<i>Ticonderoga, N. Y.</i>
Gerald Blair Bate	A	<i>Newark, N. J.</i>
Charles Henry Batt	P	<i>Fall River, Mass.</i>
Kenneth Crowell Baxter	P	<i>Hyannis, Mass.</i>
William Ramsden Benford	S	<i>Providence</i>
Edgar Ford Bennett	P	<i>Toledo, Ohio</i>
Lewis Parsons Betts	P	<i>New Haven, Ct.</i>
Wesley John Bouchard	P	<i>Providence</i>
Thomas Davies Bowman	A	<i>Pottsville, Pa.</i>
Thomas Wilson Boyde, Jr.	S	<i>Washington, D. C.</i>
William Ernest Braisted, Jr.	P	<i>Red Bank, N. J.</i>
James Edward Brennan, Jr.	P	<i>Pawtucket</i>
Donald Charles Brewer	P	<i>Lockport, N. Y.</i>
Harold Albert Broda	P	<i>Canton, Ohio</i>
Edward Bromage, Jr.	P	<i>Thompsonville, Ct.</i>
John Sidney Brookfield	S	<i>Syracuse, N. Y.</i>
Arnold Kaywood Brown	A	<i>Providence</i>
Charles Jefferson Brown	P	<i>Newtonville, Mass.</i>
Ernest Stewart Brown	P	<i>Lancaster, N. H.</i>
Leon Edward Brown	A	<i>Brooklyn, N. Y.</i>
Norman Rogers Brown	A	<i>Danvers, Mass.</i>
Thomas William Brown, Jr.	P	<i>Chatham, N. J.</i>
Walter Valentine Brown	P	<i>Providence</i>

NAME		RESIDENCE
Herbert Carpenter Brownell	P	<i>Providence</i>
Clark Witter Browning	A	<i>Norwich, Ct.</i>
Robert William Buckley	P	<i>Providence</i>
Kenneth Gould Burton	P	<i>Providence</i>
Worth Rhodes Bushnell	P	<i>Thompsonville, Ct.</i>
Charles Harker Bussum	P	<i>Asbury Park, N. J.</i>
Henry Joseph Butler	A	<i>Fall River, Mass.</i>
Willoughby Miller Cady	A	<i>Middletown, Ct.</i>
Bruce Caldwell	P	<i>Ashton</i>
Arthur Campopiano	S	<i>Providence</i>
Gabriel Caplan	A	<i>Fitchburg, Mass.</i>
James Carbone	S	<i>Providence</i>
Lawrence Marisdon Carley	S	<i>Chatham, N. J.</i>
Ernest Albert Carlson	S	<i>Deep River, Ct.</i>
Ralph Moshier Carpenter	S	<i>Willimantic, Ct.</i>
Thomas Francis Carr	A	<i>Fall River, Mass.</i>
Roger Hunt Case	P	<i>Auburndale, Mass.</i>
Philip Caswell, Jr.	P	<i>Newport</i>
Clifford Chadwick	A	<i>Rumford</i>
Francis Hasseltine Chafee	P	<i>Providence</i>
Walcott Colwell Chandler	S	<i>Greenville</i>
Otis Snow Chapman	P	<i>Rockville, Ct.</i>
Merrill Wallace Chase	A	<i>Providence</i>
Albert Lorimer Chesbro	A	<i>Fall River, Mass.</i>
Leo Irwin Chinsky	P	<i>East Norwalk, Ct.</i>
Herbert Arnold Clark	P	<i>Washington, D. C.</i>
Arthur Bailey Cleaves	P	<i>Providence</i>
Milton Hartwell Cobb	P	<i>Brockton, Mass.</i>
George Burt Cole	A	<i>Providence</i>
Eugene Anderson Conant	P	<i>Apponaug</i>
John Joseph Connors	P	<i>Waterbury, Ct.</i>
Harold Everett Conrad	A	<i>Attleboro, Mass.</i>
Peter Cooper	S	<i>Asbury Park, N. J.</i>
Jasper Silva Costa	A	<i>North Dartmouth, Mass.</i>
Farrel Frederick Cowley	A	<i>Lynbrook, N. Y.</i>
Carlos Henry Crandall	P	<i>Groton, Ct.</i>
Bertram Walter Creese	A	<i>Danvers, Mass.</i>
Irwin Barker Crosman	P	<i>New York, N. Y.</i>
George Beatty Culbertson	P	<i>Bryn Mawr, Pa.</i>
John Milton Davenport	P	<i>Pawtucket</i>
Sherwood Bradley Davidge	P	<i>Binghamton, N. Y.</i>
Bruno Giordano De Fusco	A	<i>Providence</i>
John Henry Degenhardt	A	<i>Brooklyn, N. Y.</i>

NAME		RESIDENCE
Sherman Dennis, Jr.	P	<i>Asbury Park, N. J.</i>
William Bruce Dennis	P	<i>Detroit, Mich.</i>
Edgar Partridge Deuell	P	<i>Hackensack, N. J.</i>
William Augustine Doran	A	<i>Somerset, Mass.</i>
Bruce Douglas	P	<i>Brooklyn, N. Y.</i>
George Wilson Douglass	A	<i>Boston, Mass.</i>
John Goodchild Dow	A	<i>Kennebunkport, Me.</i>
Robert Brooks Downes	P	<i>Haverhill, Mass.</i>
Aubrey Allen Drake	A	<i>New Haven, Ct.</i>
Robert Wiggan Duncan	P	<i>Portsmouth, N. H.</i>
Gordon Elroy Dunn	A	<i>Brownsville, Vt.</i>
Dean Holland Echols	P	<i>Milwaukee, Wis.</i>
Stuart Emerson Eddy	S	<i>Syracuse, N. Y.</i>
William George Edson	S	<i>Swampscott, Mass.</i>
Philip Eisemann, Jr.	P	<i>Lancaster, Pa.</i>
Earle Engles Eldredge	S	<i>Hyannis, Mass.</i>
Aaron Edward Elfenbein	P	<i>New London, Ct.</i>
Franklin Davenport Elmer, Jr.	A	<i>Hamilton, N. Y.</i>
Eugene Michael Fahey	S	<i>Fall River, Mass.</i>
George Freeman Fairbank	P	<i>Medfield, Mass.</i>
Fred Hill Fay	P	<i>East Hardwick, Vt.</i>
George Nichols Fessenden	P	<i>Providence</i>
Wendell Spencer Fielding	S	<i>Pawtucket</i>
James Jones Fine, Jr.	P	<i>Providence</i>
Oscar Fishstein	A	<i>Providence</i>
Frank Miles Flint	P	<i>Friendship Heights, Md.</i>
Edward Patrick Flynn	A	<i>Elizabeth, N. J.</i>
James Underhill Fogle	P	<i>Canton, Ohio</i>
Milton Napier Forde	P	<i>Brooklyn, N. Y.</i>
Clyde Albert Fore	P	<i>Brookline, Mass.</i>
Richard Formidoni	A	<i>Woodbridge, N. J.</i>
Lester Allen Forsyth	S	<i>Swampscott, Mass.</i>
Alan Pope Fort	P	<i>Germantown, Pa.</i>
Abraham Sonnet Friedman	S	<i>Pawtucket</i>
Walter Peter Gage	P	<i>Ridgewood, N. J.</i>
John Emil Gagnon	A	<i>New London, Ct.</i>
George Lacey Gane	P	<i>Bryn Mawr, Pa.</i>
Clinton Alfred Gascoyne	P	<i>Kew Gardens, N. Y.</i>
William Kenyon Glor	S	<i>Cleveland, Ohio</i>
Edward Goldberger	A	<i>Providence</i>
Clifford Bernard Good	P	<i>Plattsburg, N. Y.</i>
Andrew Carlile Goodier	P	<i>Lonsdale</i>
Charles Wheelock Goulding	P	<i>Providence</i>

NAME		RESIDENCE
Edmund Roland Goulet	P	<i>Grafton, Mass.</i>
John Shapley Gray	P	<i>New London, Ct.</i>
John Gardner Greene	A	<i>Boston, Mass.</i>
William Shepard Greig	P	<i>Niagara Falls, N. Y.</i>
Ralph Haslam Groves	S	<i>Attleboro, Mass.</i>
Ralph Waite Guild	P	<i>Ridgefield Park, N. J.</i>
William Percy Gunn	P	<i>New York, N. Y.</i>
George Francis Guyette	P	<i>Woonsocket</i>
Stanley Howland Hall	P	<i>Mamaroneck, N. Y.</i>
Carl Clifford Hanson	P	<i>Waltham, Mass.</i>
Edward Frederick Harmon	P	<i>Winchester, Mass.</i>
Howard Hagaman Harrison	A	<i>Newark, N. J.</i>
Gordon Raymond Haslam	A	<i>Providence</i>
Edward Grant Hawk	P	<i>Brooklyn, N. Y.</i>
William Edward Hayes	P	<i>Erie, Pa.</i>
Abraham Heller	P	<i>Willimantic, Ct.</i>
Charles Elvin Hendrickson, Jr.	S	<i>Red Bank, N. J.</i>
John Case Henry	S	<i>Hamilton</i>
William Fellows Hight	P	<i>Bangor, Me.</i>
Victor Hill	A	<i>Rocky River, Ohio</i>
Morris Howe Hilton	P	<i>Providence</i>
Paul Harvey Hodge	P	<i>Fitchburg, Mass.</i>
Harris Hamlin Hodges	P	<i>Cherry Chase, D. C.</i>
Lehman Anthony Hoeffler	P	<i>Waterbury, Ct.</i>
Clyde Foster Hoover	P	<i>Providence</i>
William Hopewell, Jr.	P	<i>Fall River, Mass.</i>
Stanley Kenneth Hoppen	S	<i>Nyack, N. Y.</i>
Walter Burns Horn	P	<i>Hollis, N. Y.</i>
William Canniff Horn	P	<i>Hollis, N. Y.</i>
Kenneth Gordon Horton	P	<i>Providence</i>
Kenneth Judson Hovey	S	<i>Providence</i>
Harman Charles Howe	P	<i>New York, N. Y.</i>
Gardner Cummings Hudson	A	<i>Fitchburg, Mass.</i>
Warren Yeaw Hull	P	<i>Edgewood</i>
John Montgomery Hunter	P	<i>Providence</i>
Howard Edwin Husker	P	<i>Waterbury, Ct.</i>
Francis William Ingalls	S	<i>Bloomfield, N. J.</i>
Walter Andrew Jawarek	S	<i>Warren</i>
Thomas Nelson Jeffress	P	<i>Washington, D. C.</i>
Lewis Buchanan Jelleme	P	<i>Passaic, N. J.</i>
Charles Franklin Johnson	P	<i>Newton, Mass.</i>
Robert Allan Johnston	P	<i>Rockland, Mass.</i>
Thomas Joseph Jones	P	<i>Kingston, Pa.</i>

NAME		RESIDENCE
Robert Edward Jordan	P	<i>Grafton, Mass.</i>
Harry Marderos Kechijian	A	<i>Providence</i>
Charles Daboll Kenney, Jr.	P	<i>Eden Park</i>
Kirtland Jay Keve	P	<i>New York, N. Y.</i>
Grafton Hersey Keyes	P	<i>Hingham, Mass.</i>
Frank Viall Kimball	P	<i>Auburn</i>
Clayton Lambert Klein, Jr.	A	<i>Naugatuck, Ct.</i>
John Savage Klein	P	<i>Erie, Pa.</i>
Earl Ward Knapp, Jr.	S	<i>Drexel Hill, Pa.</i>
James Palmer Knowles, Jr.	S	<i>Kingsbridge, N. Y.</i>
William John Kraemer	S	<i>Lafayette, N. J.</i>
Daniel Lapolla	A	<i>Providence</i>
Arthur Lewis Lawrence	S	<i>Melrose, Mass.</i>
Edwin Laws Layton	P	<i>Bridgeville, Del.</i>
James Bayles Leek, Jr.	P	<i>Saratoga Springs, N. Y.</i>
Robert Wayland Lent	P	<i>Elmira, N. Y.</i>
Everett Thrasher Lesure	P	<i>Pittsfield, Mass.</i>
Roland Gustave Lindgren	A	<i>East Providence</i>
Edgar Russell Loud	S	<i>Providence</i>
Burton Burrell Lovell, Jr.	S	<i>Providence</i>
Thomas Scott Lowry, 3d	P	<i>New York, N. Y.</i>
Irving Grundy Loxley	P	<i>Providence</i>
Albert Clarence Lunden	P	<i>Monson, Mass.</i>
Frank Angelo Luraski	P	<i>Phillipsburg, N. J.</i>
Clyde Mabie	P	<i>Bergenfield, N. J.</i>
Samuel James McCormick	P	<i>South Manchester, Ct.</i>
Kenneth Macdonald	P	<i>New York, N. Y.</i>
Thomas Upton MacElwee	P	<i>Philadelphia, Pa.</i>
Paul Bradley McGee	P	<i>Jamestown, N. Y.</i>
John Joseph McGeeney	S	<i>Hollis, N. Y.</i>
Frederic Joseph McGrath	P	<i>Hingham, Mass.</i>
John Marshall McGregor	P	<i>Providence</i>
Robert Arthur Mack	S	<i>Edgewater, N. J.</i>
Edward Christy McLeod	P	<i>Washington, Pa.</i>
Robert Humphrey McNally	P	<i>Chevy Chase, D.C.</i>
Arthur Pallas McNulty	P	<i>New York, N. Y.</i>
Thomas Anthony Magee	P	<i>Bogota, N. J.</i>
Alexander Beck Maley	P	<i>Chicago, Ill.</i>
Alfred Clark Marble	P	<i>East Providence</i>
Jacob Marinsky	P	<i>Providence</i>
Edward Martin	S	<i>Belfast, Me.</i>
George Butler Martin	P	<i>Wilmette, Ill.</i>
Wesley William Martin	P	<i>Detroit, Mich.</i>

NAME		RESIDENCE
Newell Ormsbee Mason	A	<i>Attleboro, Mass.</i>
Wentworth Massie	S	<i>Cranston</i>
Junia William Merriam	P	<i>Worcester, Mass.</i>
Harold Russell Meyers	A	<i>Brooklyn, N. Y.</i>
Francis Delos Miller	P	<i>Cortland, N. Y.</i>
Franklin Pierce Miller	S	<i>Providence</i>
William James Miller	P	<i>Haverhill, Mass.</i>
Berton Raymond Millington	P	<i>Maynard, Mass.</i>
Russell Wetherby Mills	S	<i>Pawtucket</i>
Irving Owen Miner	S	<i>East Greenwich</i>
David Mishel	P	<i>Lynn, Mass.</i>
Harold Brian Mistr	P	<i>Cleveland, Ohio</i>
Everett Edward Moon	S	<i>Anthony</i>
Richard Henry Moorhouse	P	<i>East Bridgewater, Mass.</i>
Robert Croxton Morris	P	<i>White Plains, N. Y.</i>
Nathaniel Church Morse	P	<i>Summit, N. J.</i>
Joséph Harold Moskovich	P	<i>Newport</i>
Michael Joseph Mozzochi	S	<i>Deep River, Ct.</i>
Charles Carroll Mulliken	P	<i>Roselle Park, N. J.</i>
John Vincent Munroe	P	<i>Peabody, Mass.</i>
Carl Glenn Myers	P	<i>Cleveland, Ohio</i>
Herbert Palmer Negus	P	<i>New Bedford, Mass.</i>
Roy Francis Nelson	P	<i>Pontiac</i>
Thomas Sanford Nelson	P	<i>Hollis, N. Y.</i>
W. L. Jack Nelson	P	<i>Memphis, Tenn.</i>
John Cattle Newton	S	<i>Bayside, N. Y.</i>
William Tennyson Nicholas	S	<i>Kingston, Pa.</i>
Warren Noble, Jr.	P	<i>Jamaica Plain, Mass.</i>
Charles Joseph O'Brien	P	<i>Adams, Mass.</i>
Paul Dennison O'Brien	A	<i>Yonkers, N. Y.</i>
George Anthony O'Connor	A	<i>Providence</i>
John Willard Odin	P	<i>New Britain, Ct.</i>
Anthony Vincent O'Malley	S	<i>Clinton, Mass.</i>
John Joseph Orth	P	<i>Brookline, Mass.</i>
Sumner Theodore Packard, Jr.	P	<i>Springfield, Mass.</i>
George Edgar Parker	P	<i>Brooklyn, N. Y.</i>
John Baptist Pastore	A	<i>Providence</i>
Herbert Samuel Ewart Payntar	P	<i>Foxboro, Mass.</i>
Edward Munroe Pease	S	<i>Pawtucket</i>
Louis Francis Peck	A	<i>Brooklyn, N. Y.</i>
Lawton Parker Greenman Peckham	P	<i>Newport</i>
John Rogers Pelletreau	P	<i>Patchogue, N. Y.</i>
William Pemberton	S	<i>Havana, Cuba</i>

NAME		RESIDENCE
Edward Pflugi	P	<i>Hackensack, N. J.</i>
Stanley Rolfe Pillsbury	A	<i>Watertown, Mass.</i>
Henry Irving Polstein	P	<i>New York, N. Y.</i>
Ellis Sumner Potter	A	<i>Southbridge, Mass.</i>
Donald Emery Pratt	A	<i>Albany, N. Y.</i>
Samuel Pritzker	P	<i>Providence</i>
Charles Warren Provonchee	P	<i>Cambridge, Mass.</i>
Eugene Matthew Purver	P	<i>Narragansett Pier</i>
James Thomas Quinn	A	<i>Rahway, N. J.</i>
Anton Philip Randazzo	P	<i>Lodi, N. J.</i>
Harwood Edward Read	P	<i>Washington, D. C.</i>
Rodman Smith Reed, Jr.	S	<i>Cortland, N. Y.</i>
Philip Harris Reese	P	<i>Parsons, Pa.</i>
Owen Philip Reid	P	<i>Providence</i>
Harry George Remington	A	<i>Ocean City, N. J.</i>
Wendell Phillips Rice, Jr.	P	<i>Westville, Ct.</i>
Edward Thayer Richards, Jr.	A	<i>Mount Vernon, N. Y.</i>
George Herbert Richardson	P	<i>Allendale, N. J.</i>
George Partridge Richardson, Jr.	P	<i>South Orange, N. J.</i>
Julius Milton Richmond	P	<i>Brookline, Mass.</i>
Philip Rittersbacher, Jr.	P	<i>Newark, N. J.</i>
Beveridge Jerome Rockefeller	S	<i>Loch Arbor, N. J.</i>
John Judson Roe, Jr.	P	<i>Patchogue, N. Y.</i>
Edward Samuel Rogers, Jr.	P	<i>Cleveland, Ohio</i>
Wilbur John Rook	P	<i>Fall River, Mass.</i>
Karl Royce	P	<i>Nutley, N. J.</i>
Jason David Rudnick	P	<i>Roxbury, Mass.</i>
Edward George Rundquist	P	<i>Elmhurst, N. Y.</i>
Vernon Michael Russo	P	<i>New Haven, Ct.</i>
Wendell Egerton Ryerson	A	<i>Canton, Mass.</i>
Ronald Page Sammis	A	<i>Providence</i>
Walter David Sander	P	<i>St. George, N. Y.</i>
Robert Newton Sanderson	P	<i>North Abington, Mass.</i>
James William Santry, Jr.	P	<i>Swampscott, Mass.</i>
George Sato	P	<i>Tokio, Japan</i>
Orvis Mendon Savels, Jr.	P	<i>Worcester, Mass.</i>
Francis Daniel Schas	P	<i>Tallah, La.</i>
Frederic Cowles Schmidt	P	<i>Providence</i>
Lawrence Schumann	P	<i>Brooklyn, N. Y.</i>
Russell Dow Scribner	S	<i>Providence</i>
Wilfred Ernest Seymour	S	<i>Philadelphia, Pa.</i>
Wellington Porter Shahan	A	<i>Newburgh, N. Y.</i>
Henry Lyman Shailer	S	<i>Chester, Ct.</i>

NAME		RESIDENCE
Norman Pratt Shaw	P	<i>Boyne City, Mich.</i>
Thomas Joseph Sheahan	A	<i>Wickford</i>
Clarence Steiner Sherman	P	<i>Asbury Park, N. J.</i>
Bernard Siegel	P	<i>Providence</i>
Paul Warren Slade	S	<i>Providence</i>
Adam Wyman Smith	P	<i>Erie, Pa.</i>
Herbert John Smith	P	<i>Brooklyn, N. Y.</i>
Howard Milner Smith	P	<i>Peace Dale</i>
James Chester Smith, Jr.	A	<i>Torrington, Ct.</i>
John Wilson Smith	P	<i>New York, N. Y.</i>
Orland Francis Smith	P	<i>Brockton, Mass.</i>
Robert Miller Smith	A	<i>Brookline, Mass.</i>
William Robert Smith	P	<i>Stafford Springs, Ct.</i>
Charles Angelo Spacagana	A	<i>Providence</i>
Lorenzo Spadaro	S	<i>Providence</i>
Lambert Hurd Splane	P	<i>Detroit, Mich.</i>
Harvey Chace Stafford	P	<i>Providence</i>
Carton Sherman Stallard	P	<i>Elizabeth, N. J.</i>
George William Stanley, Jr.	S	<i>Providence</i>
Walter Stuart Stedman	A	<i>Albany, N. Y.</i>
Shirley Everett Stevens	S	<i>Holbrook, Mass.</i>
Frederick Stewart	S	<i>Newark, N. J.</i>
Woodworth Perkins Stoddard	S	<i>Flushing, N. Y.</i>
Robert Alexander Stoehr, Jr.	P	<i>Cincinnati, Ohio</i>
Gordon TenBroeck Stone	P	<i>Niagara Falls, N. Y.</i>
Richard Strull	P	<i>Brooklyn, N. Y.</i>
Henry Donald Stuard	P	<i>Ardmore, Pa.</i>
Weston Melville Stuart	A	<i>Nyack, N. Y.</i>
Joseph Cornelius Stumpf	P	<i>Brooklyn, N. Y.</i>
Arthur Francis Sullivan	A	<i>Fall River, Mass.</i>
Sidney Fletcher Sweeney	P	<i>East Jaffrey, N. H.</i>
Clinton Wallace Sweet	P	<i>Chazy, N. Y.</i>
Emil Talamini	P	<i>Brooklyn, N. Y.</i>
John Aeneas Taylor	P	<i>Elizabeth, N. J.</i>
Ralph Carlyle Taylor	P	<i>Canton, Mass.</i>
Arthur Rothwell Tebbutt	A	<i>New Bedford, Mass.</i>
Leonard Jerome Teitlebaum	P	<i>New York, N. Y.</i>
Wilbur Chapman Thiess	P	<i>Philadelphia, Pa.</i>
Frederick Caldwell Thomas, Jr.	P	<i>Glen Ridge, N. J.</i>
Paul Fifield Thomas	P	<i>Brookline, Mass.</i>
Henry Irving Thompson	P	<i>Pawtucket</i>
Howard Everett Thompson	P	<i>Morris Plains, N. J.</i>
Morris Leroy Tiffany, Jr.	P	<i>Bristol, Ct.</i>

NAME		RESIDENCE
Frank Tishkinas	P	<i>Waterbury, Ct.</i>
John de Peyster Toler	S	<i>New York, N. Y.</i>
John Philip Tossberg	P	<i>Chatham, N. J.</i>
George Toyoharu Tsukuno	P	<i>Seattle, Wash.</i>
Solomon Udelowitz	A	<i>Waterbury, Ct.</i>
Charles Warren Van Benschoten	P	<i>Providence</i>
Fred Hadwick Van Duyn	P	<i>Ridgewood, N. J.</i>
Norman Foote Van Gelder	S	<i>Mountain Lakes, N. J.</i>
Henry John Van Lennep	P	<i>Great Barrington, Mass.</i>
Aaron Bertram Voloshin	P	<i>New Haven, Ct.</i>
William Archibald Walker	P	<i>Providence</i>
Jacob Poriss Warren	P	<i>Providence</i>
John Catesby Weeden, Jr.	P	<i>Washington, D. C.</i>
Gerald Francis Weis	S	<i>Nyack, N. Y.</i>
Robert Franklin Weller	P	<i>Red Bank, N. J.</i>
Charles Wendt, Jr.	P	<i>New York, N. Y.</i>
Frank Hiram Westlake, Jr.	P	<i>Cleveland, Ohio</i>
Edmund Wexler	A	<i>Providence</i>
William David Whalen	P	<i>Pawtucket</i>
Edwin Albert Whitehouse	P	<i>Ridgewood, N. J.</i>
Miles Jonathan Whitelcy	S	<i>Asbury Park, N. J.</i>
George Frederick Whitlock	S	<i>Brooklyn, N. Y.</i>
Robert Clark Whittemore	P	<i>Akron, Ohio</i>
Frederick Bernays Wiener	P	<i>New York, N. Y.</i>
Warren Wyeth Willard	A	<i>Canton, Mass.</i>
Arthur Ashley Williams, Jr.	P	<i>Holliston, Mass.</i>
Charles Hasler Williams	P	<i>Pottsville, Pa.</i>
Leonard Earle Wilson	S	<i>Somerset, Mass.</i>
Lewis Van Norden Wilson	S	<i>New Rochelle, N. Y.</i>
Leon Oliver Wolcott	P	<i>New York, N. Y.</i>
Russell Charles Wonderlic	P	<i>Port Huron, Mich.</i>
Chester Searle Worden	A	<i>Cranston</i>
Everett Stanley Worth	P	<i>North Adams, Mass.</i>
Nelson Theodore Wright	S	<i>Woonsocket</i>
Joseph Arnold Yates	P	<i>Providence</i>
Robert Cushman Young, Jr.	A	<i>Orwell, Vt.</i>
John Harold Zabriskie	A	<i>Bogota, N. J.</i>

SPECIAL STUDENTS

Russell Stanton Bray	<i>Pawtucket</i>
Joel Sebastian Carlson	<i>Newport</i>
Andrew Joseph Conroy	<i>Cincinnati, Ohio</i>

SCHOOL OF EDUCATION

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NAME	RESIDENCE
Frank Charles Fowler	<i>Los Angeles, Calif.</i>
Joseph Germano, Jr.	<i>Providence</i>
Joseph George Glass	<i>Somerville, N. J.</i>
Joseph Henry Hopkins	<i>Providence</i>
Jean Paul Jaquette	<i>Providence</i>
Robert Kinniburgh	<i>Pawtucket</i>
John Langdon	<i>Providence</i>
Alpha Anson Learned	<i>Providence</i>
Louis Levy	<i>Providence</i>
Charles Rounceville Lynn	<i>East Providence</i>
Frank Tongue Macdonald	<i>Providence</i>
George Cook Sheaver MacKay	<i>Providence</i>
John Milton Manning	<i>Providence</i>
Leonard Thomas Maynard	<i>Providence</i>
John George O'Meara	<i>Providence</i>
Harold Albert Potter	<i>East Providence</i>
Maurice Power	<i>Providence</i>
Robert Winthrop Pratt	<i>Cleveland, Ohio</i>
Allen Clare Provost	<i>Pittsburgh, Pa.</i>
Frank Archer Robinton	<i>Medford, Mass.</i>
Amarendranath Sen	<i>Calcutta, India</i>
Adolph Henry Stein	<i>Buchanan, N. Y.</i>
Richard West	<i>Longmeadow</i>
Ralph Goddard Winterbottom	<i>New Bedford, Mass.</i>
Yoshitaro Yamada	<i>Tokyo, Japan</i>

SCHOOL OF EDUCATION

(STUDENTS NOT LISTED ELSEWHERE)

	GRADUATES
Monica Mary Hoye, Ed.B.	<i>Providence</i>
Mary McGair, Ed.B.	<i>Providence</i>

SECOND YEAR STUDENTS

Alice Clara Beirne	<i>Providence</i>
Agnes Boles	<i>Providence</i>
Anna Louise Burns	<i>Providence</i>
Maude Collins	<i>Providence</i>
Mae Grady	<i>East Providence</i>
Mary Cornelia Greene	<i>Providence</i>
John Francis Horgan	<i>Arctic</i>
Frederick Harris Huling	<i>Providence</i>
Harold Lavern Kendall	<i>Providence</i>

NAME	RESIDENCE
Marion Ethel Macdonald	<i>Providence</i>
William Michael McDermott	<i>Providence</i>
Mary Olive McMichael	<i>Blackstone, Mass.</i>
Harlan Berkley Peabody	<i>Providence</i>
Edith Lillian Robinson	<i>Providence</i>
Cecilia Agnes Savage	<i>Valley Falls</i>
Emily Ann Steere	<i>Providence</i>
Marguerite Tucker	<i>Providence</i>
Marguerite Tully	<i>Providence</i>

FIRST YEAR STUDENTS

Henry Francis Anglim	<i>Providence</i>
Elizabeth Irene Ballard	<i>Providence</i>
Peter Joseph Comi	<i>Providence</i>
Anna Jane Garland	<i>Pawtucket</i>
Alice Collins Gleeson	<i>Providence</i>
Pauline Gray	<i>Providence</i>
Anna Adelaide Heffernan	<i>Providence</i>
Alice Clare Kelly	<i>Providence</i>
Sara Lucilla Kerr	<i>Central Falls</i>
Margaret Catherine Schmid Labbée	<i>Providence</i>
Annie Laney	<i>Providence</i>
Neva Leslie Langworthy	<i>East Providence</i>
Ethel McCombe	<i>Woonsocket</i>
Catherine Elizabeth McCormack	<i>Providence</i>
Florence Mahoney	<i>Providence</i>
Madeline Catherine Mainey	<i>Providence</i>
Alice O'Halloran	<i>Providence</i>
Elizabeth Marion Payne	<i>Providence</i>
Frances Mary Quinn	<i>Providence</i>
Madeline T. Sullivan	<i>Providence</i>
Norman Earle White	<i>Pawtucket</i>
Elise Krasse Willard	<i>Providence</i>

SPECIAL STUDENTS

Helen Cashman	<i>Providence</i>
Alice Caulfield	<i>Providence</i>
Mary Donovan	<i>Providence</i>
Marie Lamond	<i>Providence</i>
Helen McCoart	<i>Providence</i>
Mary Meegan	<i>Providence</i>
Helen Mowry	<i>Providence</i>
Mary Margaret Powers	<i>Providence</i>
Kathryn Eleanor Struck	<i>Providence</i>

APPENDIX

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THE RHODE ISLAND ALPHA OF THE PHI BETA KAPPA SOCIETY†

OFFICERS, 1923-24

- President:* Professor JAMES QUAYLE DEALEY, Ph.D.
Vice-President: HENRY ALLEN WHITMARSH, M.D.
Secretary: Professor WILLIAM THOMSON HASTINGS, A.M.
Treasurer: WILLIAM WASHBURN MOSS, A.M.
Historian: Professor WILFRED HAROLD MUNRO, L.H.D.
Auditor: CLAUDE RAYMOND BRANCH, A.B.

MEN ELECTED IN 1923

- Seniors:* CLARENCE EDWIN BENNETT, WILLIAM DIGHTON, THEODORE ROOSEVELT JEFFERS, WILLARD FOREST JOHNSON, FRANCIS LELAND JONES, ANTHONY JOSEPH LOIACONO, ROBERT OSMOND MEADER, SKILLMAN EARL MYERS, JOHN JOSEPH O'BRIEN, JR., JOHN CURTIS REED, HARRY HOWARD REYNOLDS, ROBERT JOSEPH RUSSELL, JR., LEONARD PERKINS SAYLES, HARRY SHULMAN, EDWARD SHAW SKILLINGS, RONALD BANCROFT SMITH, VINCENT YORK, HAROLD HERBERT YOUNG.
Juniors: LOUIS EDMUND HATHAWAY, JR., GEORGE HALSEY HUNT, HERBERT DAY LAMSON, GEORGE SAUTÉ.

THE BROWN CHAPTER OF THE SOCIETY OF THE SIGMA XI

OFFICERS, 1923-24

- President:* Professor ROBERT FOSTER CHAMBERS, Ph.D.
Vice-President: Professor WILLIAM RUSSELL BURWELL, Ph.D.
Secretary: RAYMOND FRANKLIN BORDEN, Ph.D.
Treasurer: Professor HERBERT FRANKLIN DAVISON, A.M.
Auditor: Professor JAMES ALEXANDER HALL, A.B., Sc.B.

† For the Women's Organization of the Phi Beta Kappa Society, see page 264.

BROWN UNIVERSITY

MEMBERS ELECTED IN 1923‡

To Full Membership

Faculty: LUCIUS AURELIUS BIGELOW, PH.D.

Graduates: HELEN TUCKER ALBRO, A.B., WENDELL EVERETT JAMES, A.B.,
JANE FRANCES PECKHAM, A.B., PHILIP CARL SCHERER, JR., PH.B.

To Associate Membership

Graduates: EDITH STEELE BOWEN, A.B., ELLIOTT WARD CHENEY, A.B., HENRY
EVERETT CHILDS, B.S., WILLIS HOBRON JEFFREY, PH.B., OLIN EVERETT
NELSON, A.B., HOPE RAWSON, A.B.

Seniors: JUSTIN MEREDITH ANDREWS, CLARENCE EDWIN BENNETT, CLARENCE
RAYMOND DAY, FRANK EDWIN FAHLQUIST, HOWARD LEAVITT FALES, EUGENE
FREDERICK GRUNEWALD, MYRON URBAN LAMB, CHARLES PHILIP LINDNER,
ANTHONY JOSEPH LOIACONO, ERNEST LYON LYNN, ROBERT OSMOND MEADER,
HARRY HOWARD REYNOLDS, LEONARD PERKINS SALES, GEORGE WASHINGTON
SMITH, DANIEL VINCENT TROPOLI, PAUL KNIGHT WILSON.

Juniors: HARRY BERNARD, GEORGE HALSEY HUNT, GEORGE SAUTÉ.

‡ For the members elected from the Women's College, see page 264.

THE WOMEN'S COLLEGE

IN BROWN UNIVERSITY

∴

ORGANIZATION OF THE WOMEN'S COLLEGE

INSTRUCTION for undergraduate women ‡ is provided by a department of the University known as THE WOMEN'S COLLEGE IN BROWN UNIVERSITY. The aim of the Women's College is to offer to all properly prepared women the same examinations, the same courses of study under the same teachers, and the same degrees that the University offers to men, but to maintain separate classes and to preserve the distinct social life of a separate college.

The Corporation of the University has supervision and control of the Women's College as of other departments of the University, and for this purpose appoints annually an Executive Committee of the Women's College. The President of the University is charged with the general direction, supervision, and government of this College as of other departments of the University. The immediate direction, supervision, and government devolve, subject to the direction of the President, on the Dean of the Women's College. An Advisory Council, appointed under the authority of the Corporation, advises with the President and the Dean upon matters relating to the Women's College, and makes recommendations to the Executive Committee of the Women's College or to the Corporation. The immediate administration of the social life of the College, subject to the President of the University and the Dean of the College, rests with the Student Government Association.

The Faculty of the Women's College is composed of the heads of all departments of instruction in Brown University, together with all professors and instructors who are actually teaching in the College.

Catalogues of the Women's College may be obtained from the Registrar of the Women's College in Brown University, Providence, R. I. Requests for information not contained in this Catalogue or in the Bulletins should be addressed to the Dean of the Women's College in Brown University, Providence, R. I.

‡ In the Graduate Department of Brown University all courses intended for graduate students are open to women on the same terms as to men.

OFFICERS OF ADMINISTRATION AND INSTRUCTION

EXECUTIVE OFFICERS

WILLIAM HERBERT PERRY FAUNCE, D.D., LL.D., PRESIDENT
MARGARET SHOVE MORRISS, PH.D., DEAN OF THE WOMEN'S COLLEGE
Associate Professor of American History
EMMA BRADFORD STANTON, A.M., REGISTRAR OF THE WOMEN'S COLLEGE

FACULTY

HENRY BRAYTON GARDNER, PH.D.
Eastman Professor of Political Economy
COURTNEY LANGDON, A.B.
Professor of the Romance Languages and Literatures
EDMUND BURKE DELABARRE, PH.D.
Professor of Psychology
‡ WALTER COCHRANE BRONSON, A.M., LITT.D.
Professor of English
WALTER GOODNOW EVERETT, PH.D.
Professor of Philosophy and Natural Theology
ASA CLINTON CROWELL, PH.D.
Associate Professor of the Germanic Languages and Literatures
CARL BARUS, PH.D., LL.D.
Dean of the Graduate Department; Hazard Professor of Physics
FRANCIS GREENLEAF ALLINSON, PH.D., LITT.D.
David Benedict Professor of Greek Literature and History
JAMES QUAYLE DEALEY, PH.D.
Professor of Social and Political Science
WALTER BALLOU JACOBS, A.M.
Professor of Education; Director of University Extension; Director of the School of Education
ALBERT DAVIS MEAD, PH.D., SC.D.
Professor of Biology
ALBERT KNIGHT POTTER, A.M.
Professor of English

‡ On leave of absence during the academic year 1923-24.

‡ALBERT BUSHNELL JOHNSON, A.M.

Associate Professor of the Romance Languages

FREDERIC POOLE GORHAM, A.M.

Professor of Bacteriology

JOHN FRANCIS GREENE, A.M.

Associate Professor of Roman Literature and History

HENRY THATCHER FOWLER, PH.D.

Professor of Biblical Literature and History

GEORGE WYLLYS BENEDICT, PH.D.

Professor of English

THOMAS CROSBY, A.M.

Associate Professor of English and Public Speaking

§HENRY BARRETT HUNTINGTON, A.B.

Associate Professor of English

CHARLES WILSON BROWN, A.M.

Associate Professor of Geology

HERBERT EUGENE WALTER, PH.D.

Professor of Biology

ROLAND GEORGE DWIGHT RICHARDSON, PH.D.

Professor of Pure Mathematics

CHARLES HERMAN HUNKINS, DR. UNIV. PARIS

Associate Professor of the Romance Languages and Literatures

RAYMOND CLARE ARCHIBALD, PH.D., LL.D.

Professor of Pure Mathematics

THEODORE COLLIER, PH.D.

Professor of European History

WILLIAM THOMSON HASTINGS, A.M.

Associate Professor of English

ALFRED HARRISON JONES, PH.D.

Associate Professor of Logic

‡ROBERT MCBURNEY MITCHELL, PH.D.

Assistant Professor of the Germanic Languages and Literatures

KENDALL KERFOOT SMITH, PH.D.

Associate Professor of Greek Literature and History

‡CLINTON HARVEY CURRIER, A.M.

Assistant Professor of Mathematics

ROBERT FOSTER CHAMBERS, PH.D.

Associate Professor of Chemistry on the Newport Rogers Foundation

‡ On leave of absence during the academic year 1923-24.

§ On leave of absence during the first semester 1923-24.

‡ HAROLD STEPHEN BUCKLIN, PH.D.

Assistant Professor of Social Science

HERBERT FRANKLIN DAVISON, A.M.

Assistant Professor of Chemistry

§ JOHN SHAPLEY, PH.D.

Assistant Professor of Art; Director of the Museum of Fine Arts

ROBERT WILBUR BURGESS, PH.D.

Assistant Professor of Mathematics

RAY EDWIN GILMAN, PH.D.

Assistant Professor of Mathematics

EDOUARD R. MASSEY, B. ÈS LETTRES, A.M.

Assistant Professor of the Romance Languages

WALTER HENRY SNELL, PH.D.

Assistant Professor of Botany

VERNER WINSLOW CRANE, PH.D.

Assistant Professor of American History on the George L. Littlefield Foundation

GAETANO CAVICCHIA, A.B.

Assistant Professor of Romance Languages and Literatures

MARGARET SHOVE MORRISS, PH.D.

Dean of the Women's College; Associate Professor of American History

BENJAMIN CROCKER CLOUGH, PH.D.

Assistant Professor of English

KENNETH OLIVER MASON, A.M.

Assistant Professor of English

ALBERT EDWARD RAND, PH.D.

Assistant Professor of French

CLAUS EMANUEL EKSTROM, A.M.

Assistant Professor of Education

ROBERT HUDSON GEORGE, PH.D.

Associate Professor of History

AINSWORTH O'BRIEN-MOORE, PH.D.

Assistant Professor of Roman Literature and History

GENE WILDER WARE, A.B.

Assistant Professor of Music; Organist and Director of Chapel Music

ARTHUR GODFREY SELLEN, PH.D.

Assistant Professor of Philosophy

‡ On leave of absence during the academic year 1923-24.

§ On leave of absence during the second semester 1923-24.

EARL FRANKLIN WOOD, A.M.

Assistant Professor of English

SHARON OSBORN BROWN, A.B.

Assistant Professor of English

INSTRUCTORS

MARION EMMETT BRATCHER, PH.D.

Instructor in Biblical Literature

MAGEL CRAIG WILDER, A.M.

Instructor in Biology

MARJORIE BROWN

Director of Hygiene and Physical Education

ADELE MADELEINE WILDES, A.M.

Instructor in Latin

RAYMOND FRANKLIN BORDEN, PH.D.

Instructor in Mathematics

EVERETT CLAIR BANCROFT, A.B.

Instructor in Economics

JAY BARRETT BOTSFORD, A.M.

Instructor in History

ERNEST RICHMOND BURTON, A.M.

Instructor in Economics

ANTONIO JESUS RUBIO, D.V.M.

Instructor in Spanish

ARTHUR OWEN HICKSON, A.B.

Instructor in Mathematics

JAMES HAMPTON FITHIAN, A.B.

Instructor in Mathematics

HERVEY CRANDALL HICKS, Sc.M.

Instructor in Mathematics

ROLLIN DONALD MOORE, A.M.

Instructor in English

ANDREW HAMILTON MACPHAIL, PH.D.

Instructor in Education

STEPHEN ALBERT FREEMAN, PH.D.

Instructor in French

PAUL NEFF GARBER, PH.D.

Instructor in History

CLARENCE RAYMOND ADAMS, PH.D.

Instructor in Mathematics

CLIFFORD CHESLEY HUBBARD, A.M.

Instructor in Political Science

CLIFFORD KIRKPATRICK, A.M.

Instructor in Social Science

WILLIAM PAXTON, A.B.

Instructor in English

HORACE MASON REYNOLDS, A.M.

Instructor in English

CHARLES LESTER SCANLON, PH.B.

Instructor in Spanish

ALFRED HERRMANN, A.M.

Instructor in German

ASSISTANTS

EDITH MARIE LINNÉA CARLBORG, A.M.

Supervising Librarian

BLANCHE NATHALIE DAVIS

Director of Chapel Music

EVELYN PRESCOTT WIGGIN, A.B.

Assistant in Mathematics

RUTH AGAR

Assistant in Hygiene and Physical Education

CATHERINE HAMMETT

Assistant in Hygiene and Physical Education

ADMINISTRATIVE OFFICERS

EMILY SANGER PADDOCK

Head of Metcalf Hall

CHARLOTTE SNOW GODDING

Head of Miller Hall

FRANCES TEN EYCK BOYD

Head of East House

ANNA VINTON

Head of Sharpe House

COMMITTEE ON THE CURRICULUM

Professors EVERETT, JONES, POTTER, and WALTER, *President* FAUNCE, and *Dean* MORRISS, *ex-officio*.

EXECUTIVE COMMITTEE

President FAUNCE, *Dean* MORRISS, *Messrs.* STEPHEN O. METCALF, WILLIAM GAMMELL, ALBERT L. SCOTT.

ADVISORY COUNCIL

Miss AMELIA S. KNIGHT, *Mrs.* GUSTAV RADEKE, *Mrs.* CARL BARUS, *Mrs.* FRANCIS G. ALLINSON, *Mrs.* JOHN S. MURDOCK, *Mrs.* WALTER C. BRONSON.

ADMISSION TO THE WOMEN'S COLLEGE

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REQUIREMENTS FOR ADMISSION

THE requirements for admission to the Women's College are the same as those which the University prescribes for men. For information concerning admission by certificate or examination, and the times and places of examinations, see pages 24-29. Certificates and applications for permission to take examinations should be sent to the Registrar of the University. For the entrance requirements for the various degrees, admission to advanced standing, and admission of special students, see pages 29-50. Each applicant for registration as a special student must consult the Dean of the Women's College before registering.

REGISTRATION AND ENROLMENT

The regulations governing registration and enrolment are the same at the Women's College as at the University (see page 51), except that Freshmen at the Women's College do not have to meet Faculty advisers or attend Orientation lectures during the week preceding the opening of the first semester. All students must apply for registration and enrolment at the office of the Registrar of the Women's College, in Pembroke Hall, between 9 a.m. and 12 m., or between 2 p.m. and 4 p.m., on either of the two days preceding the opening of College. Permission to change a previous registration must be obtained from the Dean, on the same days and at the same hours.

REQUIREMENTS FOR DEGREES

The requirements for the various degrees are explained on pages 52-58. Upon students of the Women's College who complete satisfactorily the work leading to the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science,‡ the Board of Fellows of the University confers the appropriate degree.

FEES

Students at the Women's College pay the tuition fee of \$250 in two instalments: \$125 upon registration in September and \$125 upon registration in February. No deduction in tuition is made on account of absence. Laboratory

‡ The Women's College does not at present offer courses leading to the degree of Bachelor of Science.

fees, etc., must be paid two weeks before the close of a semester. (See pages 148, 149.)

Special students at the Women's College who are taking only one or two courses are charged \$37.50 per semester for each course holding three recitations a week. Laboratory fees are in addition to this. Special students taking more than two courses are charged the regular rate of \$25 per semester for each three-hour course. Special students who are taking fewer than five academic courses will be charged \$37.50 for a gymnasium course of three hours.

EXTRA COURSES. Students taking extra courses, either to make up deficiencies, or as voluntary work, must pay extra tuition at the rate of \$12.50 per semester for each three-hour course so taken; except that students completing their degree work in less than the regular time must pay at the rate of \$25 per semester for extra courses counted toward their degree, so that their total payments shall not be less than the amount regularly required for the degree.

COURSES OF INSTRUCTION

∴

C*COURSES designated by a † are given at the University; a limited number of approved women students may be admitted to these courses upon application to the Dean of the Women's College. For descriptions and conditions of these courses, see pages 69-137. Women are also admitted to certain other University courses with the special permission of the departments concerned and with the consent of the Dean of the Women's College.*

ART

1, 2. *General History of Art.* Professor SHAPLEY

I, II; (3). *M., W., F., at 12.25.*

[3, 4. *General History of Art*]

Alternates with 1, 2. Not offered in 1923-24.

15, 16. *Elementary Practice of Art*

I, II; (1).‡ Given at the Rhode Island School of Design. *M. at 2.*

17, 18. *Intermediate Practice of Art*

I, II; (3).‡ Given at the Rhode Island School of Design. *M., Tu., W., at 2.*

21, 22. † *Art Seminary*

23, 24. † *Journal Club*

BIBLICAL LITERATURE AND HISTORY

1, 2. † *Elementary Hebrew*

11, 12. † *Gospels and Epistles*

[13, 14. † *Acts and Pauline Epistles*]

Not offered in 1923-24.

[15, 16. *Old Testament Literature and History*]

Not offered in 1923-24.

‡ A final mark covering the year's work as a whole is given at the end of the course, the first semester's mark being only temporary.

17, 18. *New Testament Literature and History*

I, II; (3). Tu., Th., Sa., at 9.25.

21, 22.† *Biblical Seminary*

28.† *Social Teachings of the Prophets and Jesus*

29, 30.† *History of Religion*

31, 32. *The English Bible. Dr. BRATCHER*

I, II; (3). Tu., Th., Sa., at 11.25.

BIOLOGY

1, 2. *General Biology. Miss WILDER and Miss MARSH*

I, II; (3). Tu., Th., Sa., at 11.25.

3, 4. *Comparative Anatomy of Vertebrates. Professor WALTER*

I, II; (3). Tu., Th., Sa., at 11.25.

5, 6.† *Anatomy of the Nervous System*

7, 8. *Embryology and Histology. Professor MEAD*

I, II; (3). Th., F., 2 to 5.

11, 12.† *General Physiology*

13, 14.† *Chemical Physiology*

16. *Bacteriology. Professor GORHAM*

II; (3). Tu., Th., Sa., at 10.25.

17, 18.† *Advanced Bacteriology*

21. *Genetics. Professor WALTER*

I; (3). M., W., F., at 9.25.

23, 24.† *Experimental Zoölogy*

27, 28.† *Advanced Bacteriology*

37, 38.† *Bacteriological Research*

BOTANY

1, 2. *General Course. Professor SNELL*

I, II; (3). *M., W., F., at 10.25.*

5, 6. † *Morphology*

7, 8. † *Botanical Research*

CHEMISTRY

1, 2. *Descriptive Chemistry. Professor DAVISON, Dr. SIMONS, and Mr. PRAY*

I, II; (3). *M., W., F., at 12.25.*

3, 4. † *Qualitative and Quantitative Analysis*

53. † *Qualitative Analysis* †

54. † *Organic Chemistry* †

5, 6. † *Quantitative Analysis, Advanced Course*

7, 8. † *Organic Chemistry*

9. † *Sanitary Chemistry*

[12. † *Organic Dyes*]

Not offered in 1923-24.

15, 16. † *Physical Chemistry*

17, 18. † *Physical Chemistry, Advanced Course*

27, 28. † *Physical Chemistry, Advanced Course*

19, 20. † *Organic Chemistry, Advanced Course*

21, 22. † *Organic Preparations, Advanced Course*

23, 24. † *Inorganic Preparations*

25, 26. † *Research Work in Chemistry*

32. † *Industrial Analysis*

† Courses 53 and 54 will not be accepted as prerequisites for more advanced courses. Attention is called to the fact that 54 does not meet the admission requirements to all medical schools.

ECONOMICS †

1, 2. *Elementary Economics*. Mr. BANCROFT

I, II; (3). *Division 1*: Tu., Th., Sa., at 8; *Division 2*: Tu., Th., Sa., at 11.25.

5, 6. † *Money and Banking*

7. *Labor Problems*. Mr. BURTON

I; (3). Tu., Th., Sa., at 10.25.

8. *Socialism and Allied Movements*

II; (3). Tu., Th., Sa., at 10.25.

10. † *Personnel Management*

11, 12. † *Public Finance and Financial History*

13. † *Statistics*

14. † *Foreign Trade and Transportation*

15. † *Transportation in the United States*

16. † *Corporations, Corporation Finance, and Combinations*

17, 18. † *Accounting, Elementary Course*

19, 20. † *Accounting, Advanced Course*

21. † *Cost Accounting*

24. † *Investments*

25, 26. † *Marketing*

28. † *Sales Management and Advertising*

30. † *Business Research*

31. † *Natural Resources and World Markets*

32. † *Business Organization*

34. † *Business Cycles and Forecasting*

36. † *Practical Banking and Foreign Exchange*

38. † *Insurance*

† Candidates for the degree of A.B. or Ph.B. are required to take in the Sophomore or Junior year, at the Women's College, either Economics 1, 2 or Social Science 1 and Political Science 1. Advanced courses in Economics must be preceded by Economics 1, 2.

EDUCATION

2. *Principles of Education.* Dr. MACPHAIL

I; (3). Primarily for Juniors. M., W., F., at 9.25.

3. *Educational Psychology.* Professor EKSTROM

I; (3). Primarily for Seniors. M., W., F., at 9.25.

1. *History of Education.* Professor EKSTROM and Dr. MACPHAIL

II; (3). Division 1: M., W., F., at 10.25; Division 2: M., W., F., at 9.25.

21. † *Administration of Education, National and State; Rhode Island Education*

22. † *Administration of Education: Local School Control*

5, 6. † *Secondary Education*

11, 12. † *Psychology of Learning*

13, 14. † *Tests and Measurements*

15, 16. † *Seminary in Education*

17, 18. † *Administration of Education, Research Course*

19, 20. † *Experimental Education, Research Course*

24. † *The Junior High School*

ENGLISH

1. *Rhetoric and Composition.* ‡ Professors HASTINGS, CLOUGH, MASON, and WOOD

I; (3). Divisions 1, 2, and 3: M., W., F., at 9.25; Division 4: Tu., Th., Sa., at 9.25.

48. *English Literature from the Beginning to 1700.* § Professor HUNTINGTON

II; (3). Tu., Th., Sa., at 9.25.

‡ Students who receive A in English 1 will not be required to take any other course in composition. Students who receive B in English 1 may take 3, 4 or 7, 8 in the Sophomore year in place of 2.

§ Freshmen are required to take either 48 or 50. Those who have had a high school course in the history of English Literature, with reading in the principal authors, are advised to take 50; others are advised to take 48.

50. *Introduction to the Study of Literature.*† Professors BENEDICT, WOOD, and BROWN

II; (3). Divisions 1 and 2: M., W., F., at 9.25; Division 3: Tu., Th., Sa., at 8.

2. *Rhetoric and Composition.* Professors HASTINGS, CLOUGH, and MASON

II; (3). Divisions 1 and 2: M., W., F., at 9.25; Division 3: Tu., Th., Sa., at 9.25.

49. *English Literature from 1700 to 1900.* Professor BROWN, Messrs. MOORE and REYNOLDS

I; (3). Divisions 1 and 2: M., W., F., at 9.25; Division 3: Tu., Th., Sa., at 9.25.

3, 4. *English Composition, Second Course.*§ Professor BROWN

I, II; (3). Tu., Th., Sa., at 9.25.

5, 6. *English Composition, Advanced Course.*§ Professor CLOUGH

I, II; (3). Tu., Th., Sa., at 9.25.

7, 8. *Argumentative Composition.* Mr. PAXTON

I, II; (3). Tu., Th., Sa., at 9.25.

[11, 12. *Public Speaking*]

Not offered in 1923-24.

23, 24. *The Modern English Drama.* Professor CROSBY

I, II; (3). M., W., F., at 10.25.

25, 26. *Shakspeare.* Professor HASTINGS

I, II; (3). Tu., Th., Sa., at 11.25.

[27, 28. *Shakspeare*]

Not offered in 1923-24.

[31. *Browning*]

Not offered in 1923-24.

English 33, 34. Professor POTTER

I, II; (3). M., W., F., at 12.25.

[35. *English Literature from 1798 to 1832. Poetry*]

Not offered in 1923-24.

† Freshmen are required to take either 48 or 50. Those who have had a high school course in the history of English Literature, with reading in the principal authors, are advised to take 50; others are advised to take 48.

§ A final mark covering the year's work as a whole is given at the end of the course, the first semester's mark being only temporary.

[36. *English Literature from 1798 to 1832. Prose*]

Not offered in 1923-24.

37. *English Literature from 1832 to 1892. Prose. Professor BENE-
DICT*

I; (3). Tu., Th., Sa., at 12.25.

38. *English Literature from 1832 to 1892. Poetry. Professor HUNT-
INGTON*

II; (3). Tu., Th., Sa., at 12.25.

[39, 40. *American Literature*]

Not offered in 1923-24.

42. *Contemporary Novels. Professor MASON*

I; (3). Tu., Th., Sa., at 10.25.

41. *Contemporary Poets and Essayists. Professor CLOUGH*

II; (3). Tu., Th., Sa., at 10.25.

15, 16. † *Old English*17, 18. † *Chaucer*43, 44. † *Seminary in Shakspeare*

GEOLOGY

1. *Elementary Physical Geology. Professor BROWN and Dr. WIL-
LARD*

I; (3). M., W., F., at 11.25.

6. *Principles of Economic Geography. Professor BROWN*

II; (3). M., W., F., at 11.25.

2. *Elementary Historical Geology. Dr. WILLARD*

II; (3). M., W., F., at 11.25.

9, 10. † *Mineralogy and Petrography*11, 12. † *Research in Geology and Geography*17, 18. † *Paleontology*

GERMANIC LANGUAGES AND LITERATURES

- 1, 2. *Elementary German, First Year. Professor CROWELL*
I, II; (3). M., W., F., at 10.25.
- 3, 4. † *Elementary German, Second Year*
- 5, 6. *Intermediate German. Mr. HERRMANN*
I, II; (3). M., W., F., at 9.25.
- 7, 8. † *Advanced German*
- 11, 12. † *Germany and the Rhine Valley*
- 25, 26. *Outline History of German Literature*
- 29, 30. † *German Literature in English. Professor CROWELL*
I, II; (3). M., W., F., at 9.25.
31. † *Gothic*

GREEK AND LATIN CLASSICS

GREEK LITERATURE AND HISTORY

- A, B. *Beginner's Course. Professor SMITH*
I, II; (3). M., W., F., at 10.25.
1. *Homer and other Greek Poetry exclusive of the Drama. Professor SMITH*
I; (3). Tu., Th., Sa., at 9.25.
- 1 (a). *Homer and reading supplementary to Greek B. Professor SMITH*
I; (3). Tu., Th., Sa., at 9.25.
2. *Plato and Lysias. Professor ALLINSON*
II; (3). Tu., Th., Sa., at 9.25.
3. *Lucian and the Dramatic Poets. Professor ALLINSON*
I; (3). Tu., Th., Sa., at 12.25.
4. *The Historians. Professor SMITH*
II; (3). Tu., Th., Sa., at 12.25.
5. *The Drama. Professor ALLINSON*
I; (3). M., W., F., at 12.25.

6. *Demosthenes*. Professor SMITH

II; (3). M., W., F., at 12.25.

[7. *The Drama and Plato*]

Not offered in 1923-24.

[8. *Aristotle*]

Not offered in 1923-24.

12. *Greek Composition*. Professor ALLINSON

II; (1). Hours to be arranged.

15. *Greek Civilization*. Professor ALLINSON

II; (3). Tu., Th., Sa., at 12.25.

17, 18.† *Greek Seminary*

ROMAN LITERATURE AND HISTORY

A, B. *Virgil and Cicero*. Miss WILDES

I, II; (3). M., W., F., at 10.25.

1. *Cicero's De Senectute, De Amicitia; Terence's Phormio*. Miss WILDES

I; (3). Division 1: M., Th., F., at 2; Division 2: M., Th., F., at 3.

2. *Selections from Horace*. Miss WILDES

II; (3). Division 1: M., Th., F., at 2; Division 2: M., Th., F., at 3.

3. *Selections from Tacitus, Pliny the Younger*. Mr. O'BRIEN-MOORE

I; (3). Tu., Th., Sa., at 9.25.

4. *Plautus' Captivi, Trinummus, Rudens*. Mr. O'BRIEN-MOORE

II; (3). Tu., Th., Sa., at 9.25.

5, 6. *Latin Poetry*. Mr. O'BRIEN-MOORE

I, II; (3). F., 2 to 5.

[7, 8. *Latin Literature: Selections*]

Not offered in 1923-24.

[11, 12. *Latin Composition*]

Not offered in 1923-24.

16. *Roman Civilization*. Professor GREENE

I; (3). Tu., Th., Sa., at 12.25.

HISTORY

1, 2. *History of Medieval and Modern Europe.* ‡ Professors COLLIER and GEORGE, Messrs. BOTSFORD and GARBER
I, II; (3). M., W., F., at 11.25.

21, 22. *The United States, 1783-1923.* ‡ Professor CRANE
I, II; (3). M., W., F., at 11.25.

7. *The Making of the British Empire.* Professor GEORGE
I; (3). M., W., F., at 10.25.

8. *Great Britain since the Industrial Revolution.* Professor GEORGE
II; (3). M., W., F., at 10.25.

[9. *Modern European History, 1815-1871*]
Not offered in 1923-24.

[10. *Modern European History, 1871-1923*]
Not offered in 1923-24.

11, 12. † *European History Seminary*

15. *Modern Russia.* Professor COLLIER
I; (3). Tu., Th., Sa., at 9.25.

16. *The Far East and the Pacific.* Professor COLLIER
II; (3). Tu., Th., Sa., at 9.25.

[25. *Economic and Social Development of the United States*]
Not offered in 1923-24.

[24. *The United States since the Civil War*]
Not offered in 1923-24.

31, 32. † *American History Seminary*

33, 34. *Social History of the American People.* Professor MORRIS
I, II; (3). M., W., F., at 9.25.

‡ Candidates for the degree of A.B. or Ph.B. who have presented for admission Medieval and Modern European History, or English History, but not American History, must take 21, 22. Other students must take 1, 2. This requirement must be fulfilled not later than the Sophomore year.

MATHEMATICS†

A. Elementary Algebra II. Miss WIGGIN

I; (3). *M., W., F.*, at 10.25.

2. Plane Trigonometry. Miss WIGGIN

II; (3). *M., W., F.*, at 10.25.

61, 62. Elementary Analysis, First Year. Professors RICHARDSON and ARCHIBALD, Dr. ADAMS, Mr. HICKSON, and Mr. FITHIAN

I, II; (3). *Divisions 1, 2, and 3: Tu., Th., Sa.*, at 10.25.

1. Solid and Spherical Geometry. Dr. BORDEN

II; (3). *Tu., Th., Sa.*, at 10.25.

3. Algebra. Mr. HICKSON

I; (3). *Tu., Th., Sa.*, at 10.25.

65, 66. Elementary Analysis, Second Year. Professor RICHARDSON and Dr. ADAMS

I, II; (3). *Tu., Th., Sa.*, at 9.25.

7, 8. Analytic Geometry and Differential and Integral Calculus. Professor GILMAN

I, II; (3). *M., W., F.*, at 12.25.

9.† Differential Equations

14.† Fourier's Series

21, 22.† Function Theory of a Complex Variable

31, 32.† Applications of Calculus to Geometry

37, 38.† Theory of Relativity

39, 40.† Seminary Course

43, 44. Foundations, Methods, and Problems of Geometry. Professor ARCHIBALD and Dr. BORDEN

I, II; (3). *M., Th., F.*, at 2.

53. Mathematical Theory of Investment. Professor BURGESS

II; (3). *M., W., F.*, at 12.25.

† Candidates presenting for admission only Elementary Algebra I and Plane Geometry should take A and 2; those presenting also Elementary Algebra II should take 61, 62; those presenting, in addition, Trigonometry should take 63, 64.

54. *Mathematical Theory of Statistics*. Professor BURGESS
I; (3). M., W., F., at 12.25.

ASTRONOMY

1, 2. *Descriptive Astronomy*. Mr. HICKS
I, II; (3). Tu., Th., Sa., at 11.25.

MUSIC

3, 4. *The Appreciation of Music*. Mr. WARE
I, II; (3). M., W., F., at 11.25.

1, 2. *The Opera and the Symphony*. Mr. WARE
I, II; (3). Tu., Th., Sa., at 11.25.

PHILOSOPHY

1, 2. *Introduction to Philosophy*. Professor JONES
I, II; (3). Tu., Th., Sa., at 10.25.

3, 34. *Psychology*. Professor DELABARRE
I, II; (3). M., W., F., at 10.25.

5, 6. † *Psychology, Intermediate Course*

7, 8. *History of Philosophy*. Professor SELLEN
I, II; (3). M., W., F., at 11.25.

10. † *Applications of Psychology*

11, 12. † *Experimental Psychology, Introductory Laboratory Course*

14, 15. † *Seminary in Philosophy*

19, 20. † *Experimental Psychology, Advanced Laboratory Course*

21, 22. † *Seminary in Philosophy*

25, 26. *Studies in Ethics and Religion*. Professor JONES
I, II; (3). M., 3 to 5.

29, 30. † *History of Religion*

PHYSICS ‡

27, 28. † *Elementary Course*

29, 30. † *Elementary Laboratory Course*

1, 2. † *General Physics*

3, 4. † *Intermediate Course*

5, 6. † *Experimental Physics*

11, 12. † *Advanced Laboratory Course*

15, 16. † *Advanced Course*

23, 24. † *Precision Measurements in Photometry, Electricity, and Magnetism*

ROMANCE LANGUAGES AND LITERATURES

FRENCH

1, 2. *Elementary French, First Year. Dr. FREEMAN*

I, II; (3). *M., W., F., at 11.25.*

3, 4. *Elementary French, Second Year. Dr. FREEMAN*

I, II; (3). *Tu., Th., Sa., at 12.25.*

5, 6. *Intermediate French. Dr. FREEMAN*

I, II; (3). *M., W., F., at 12.25.*

7, 8. *Advanced French. Professor MASSEY and Dr. RAND*

I, II; (3). *Division 1: Tu., Th., Sa., at 10.25; Divisions 2 and 3: Tu., Th., Sa., at 12.25.*

[9, 10. *The Realistic School*]

Not offered in 1923-24.

11, 12. *The Romantic School. Professor HUNKINS*

I, II; (3). *Tu., Th., Sa., at 10.25.*

13, 14. *The Classical School. Professor HUNKINS*

I, II; (3). *M., W., F., at 9.25.*

‡ Students who intend to enter a Medical School should elect either 27, 28 and 29, 30 or 1, 2.

23, 24. *Practice in Writing and Speaking French.* Professor MASSEY

I, II; (3). *M., W., F., at 10.25.*

ITALIAN

1, 2. *Elementary Italian, First Year.* Professor CAVICCHIA

I, II; (3). *Tu., Th., Sa., at 9.25.*

3, 4. † *Elementary Italian, Second Year*

5, 6. † *Intermediate Italian*

9, 10. *Dante in English.* Professor CAVICCHIA

I, II; (3). *M., W., F., at 8.*

SPANISH

1, 2. *Elementary Spanish, First Year.* Mr. RUBIO

I, II; (3). † *M., W., F., at 12.25.*

3, 4. *Elementary Spanish, Second Year.* Mr. RUBIO

I, II; (3). *Tu., Th., Sa., at 12.25.*

5, 6. *Intermediate Spanish.* Mr. RUBIO

I, II; (3). *Tu., Th., Sa., at 11.25.*

9, 10. *Introduction to Spanish Literature.* Mr. SCANLON

I, II; (3). *M., W., F., at 12.25.*

SOCIAL AND POLITICAL SCIENCE†

SOCIAL SCIENCE

1. *Social Science.* Professor DEALEY

I and II; (3). *Tu., Th., Sa., at 12.25.* Repeated second semester, *Tu., Th., Sa., at 10.25.*

2, 3. *Modern Social Problems.* Mr. KIRKPATRICK

I, II; (3). *Tu., Th., Sa., at 11.25.*

11, 12. † *Seminary in Sociology*

† Candidates for the degree of A.B. or Ph.B. are required to take in the Sophomore or Junior year, at the Women's College, either Economics 1, 2 or Social Science 1 and Political Science 1. The advanced courses in Social Science are elective for students who have credit for Social Science 1 or 2.

13, 14. † *Social Research, Investigation, and Field Work*

15. *The Science of Sociology.* Mr. KIRKPATRICK

II; (3). Tu., Th., Sa., at 9.25.

16. *Social Psychology.* Mr. KIRKPATRICK

I; (3). Tu., Th., Sa., at 9.25.

POLITICAL SCIENCE‡

1. *Political Science.* Mr. HUBBARD

I and II; (3). Tu., Th., Sa., at 10.25. Repeated second semester, Tu., Th., Sa., at 12.25.

3, 4. *Government and Politics of the United States and of Foreign States.* Mr. HUBBARD

I, II; (3). M., W., F., at 9.25.

HYGIENE AND PHYSICAL EDUCATION§

Director: Miss BROWN; Assistants: Miss AGAR and Miss HAMMETT.

1. *Freshman Course*

In the fall and spring, outdoor sports. From Thanksgiving to the spring recess, practice in gymnastics, games and folk dances, and conferences in practical hygiene. *Miss BROWN and Miss AGAR.*

I, II. Required of all Freshmen. *Division 1: M., Th., F., at 3; Division 2: M., Tu., F., at 4; Division 3: M., W., F., at 11.25.*

2. *Sophomore Course*

Similar to the Freshman course, but more advanced. *Miss BROWN and Miss HAMMETT.*

I, II. Required of all Sophomores. *Division 1: M., W., F., at 12.25; Division 2: M., Th., F., at 2; Division 3: Tu., Th., Sa., at 11.25.*

3. *Junior Course*

Similar to courses 1 and 2. *Miss AGAR.*

I, II. Tu. at 12.25 or at 3, and two other hours at the convenience of the student. Juniors must choose course 6, 7, 8, or 9 for one of these hours.

‡ The advanced courses in Political Science are elective for students who have credit for 1 or 2.

§ For further information about the Department of Hygiene and Physical Education, see page 252.

4. *Senior Course*

Similar to courses 1 and 2. *Miss BROWN*

I, II. *Tu. at 2, and two other hours at the convenience of the student.*

5. *Individual Gymnastics*

Special exercises for students in need of individual gymnastics. May be substituted for course 1, 2, 3, or 4. *Miss AGAR and Miss HAMMETT.*
Hours to be arranged with the instructor.

6. *Interpretive Technique and Dancing.* *Miss HAMMETT*

I, II. Elective for Juniors and Seniors. *Th. at 4.*

7. *Advanced Apparatus.* *Miss BROWN and Miss AGAR*

I, II. Elective for Juniors and Seniors. *Sa. at 9.25 and 10.25.*

8. *Clog Dancing.* *Miss AGAR*

I, II. Elective for Juniors and Seniors. *Th. at 12.25.*

9. *Girl Scout Course.* *Miss HAMMETT*

Elective for Juniors and Seniors. *Th. at 9.25.*

10. *Pyramid Class.* *Miss BROWN*

PREMIUMS, PRIZES, AND HONORS

THE GASPEE CHAPTER DAUGHTERS OF THE AMERICAN REVOLUTION PRIZE. This prize of forty dollars is awarded annually to that student in the Senior or Junior class of the Women's College who shall present the best essay of recognized merit upon some topic in American history. The essays are to bear each an assumed name, and to be accompanied by an envelope marked with the assumed name and enclosing the candidate's real name and address. The essays must be handed to the Registrar of the Women's College on or before May 15. The award is announced at Commencement. For 1923-24 the subject is: *State Making during the Revolution*. For 1922-23 the subject was: *The Rhode Island Loyalists*. No prize was awarded.

THE SOCIETY OF COLONIAL DAMES PRIZE IN AMERICAN HISTORY. The income of a fund of fifteen hundred dollars, known as the Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given in 1906, is awarded each year as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Competitors must give their names to the head of the Department of History by February 28; the essays, under an assumed name, must be handed to the Registrar of the Women's College before April 26. The award is announced at Commencement. For 1923-24 the subject is: *Francis Parkman, Historian of the Wilderness*. For 1922-23 the subject was: *The Colonial Merchant of Rhode Island*.

THE EDYTHE PECK ADAMS PRIZE. This prize is offered by the class of 1901 for the best short story written by an undergraduate of the Women's College. The essays must be handed to the Registrar of the Women's College before May 15. For 1922-23 no prize was awarded.

THE SUSAN COLVER ROSENBERGER PRIZES were established in 1919 by Jesse L. Rosenberger. For conditions of award see page 161. For 1923-24 a prize of fifty dollars will be awarded to that Senior in the Women's College who up to the end of the first semester has the highest standing in the Courses in English literature and language. In 1922-23 a prize in the same amount and on the same basis was awarded to

MARY SULLY BROWN

THE ORDER OF THE SONS OF ITALY IN AMERICA PRIZES IN ITALIAN were established in 1922. (See page 161.) For 1922-23 the prizes were awarded as follows:

*In Italian 1, 2, the first prize to EVELYN RITA GIUSTI
the second prize to CAROL BERNICE BOGMAN*

In Italian 3, 4, the second prize to CLAUDINE CAROLINE WALFORD

THE ALUMNÆ GERMAN PRIZE, established in 1922 by graduates of the Women's College, is awarded to a member of the Freshman class as an entrance premium, who is found to excel in an examination presupposing the equivalent of not less than two years' study of German in a secondary school. For 1923-24 the prize was awarded to

HAZEL KESSLER, instructed in the Classical High School, Providence.

ADDITIONAL PREMIUMS. The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. If any woman is entitled to a first premium in a competition primarily intended for men, a prize, the amount of which is duly announced, is awarded by the College. In 1923-24 the following premiums were awarded to women:

PRIZES FOR EXCELLENCE IN PREPARATORY STUDIES

A first premium in Greek to ELIZABETH PEARCE ARMSTRONG, instructed in the Classical High School, Providence.

A first premium in French to ALVERDA BATCHELDER SAMMIS, instructed in the Hope Street High School, Providence.

HONOR SCHOLARSHIPS

THE ELISHA BENJAMIN ANDREWS SCHOLARSHIPS, honor scholarships without aid, have been established to provide recognition for unusual excellence in college work. For 1922-23 these scholarships were awarded as follows:

ELISHA BENJAMIN ANDREWS SCHOLARS

Class of 1923

RUTH ALMIRA LOTHROP

ELIZABETH THATCHER STAFFORD

RUTH WILMARTH MARVEL

NELLIE CLAYTON STOKES

FRANCES MAY WRIGHT

Class of 1924

ELOISE FRYE BURT

MILDRED MACLAREN MURRAY

BROWN UNIVERSITY

Class of 1925

GRACE WESTERMAN ALLSOP

CHARLOTTE TEMPEST PERRY

HELEN BUCKMINSTER LEAVITT

MARJORIE CLARISSA ROACH

ROSE ALICE WHELAN

Class of 1926

BELINDA SNOW

PRELIMINARY AND FINAL HONORS are awarded by the University to women on the same conditions as to men. See pages 169-171.

PRELIMINARY HONORS

In 1923 these were awarded to the following members of the class of 1925 whose grades contained less than thirty per cent. *A*, and not less than seventy per cent. *A* and *B*, and who had not received a grade lower than *C* in more than ten per cent. of their work:

LAURA ELEANOR ALLEN

BEULAH WINIFRED LEATHERS

ELLEN ELLERY APPEL

HELEN BUCKMINSTER LEAVITT

CATHERINE FRANCES FITZGERALD

BARBARA PHILIPPA MCCARTHY

EVELYN RITA GIUSTI

DOROTHY ELEANOR PALMER

GRACE ELEANOR HANSON

GURDA ESTELLA PRITCHARD

MARY CATHERINE HINCHEY

ELIZABETH SIMPSON

ALICE ROCKWELL HUMPHREY

ELEANOR VAN DORN SMITH

AIMEE LEE SPENCER

PRELIMINARY HIGHEST HONORS

In 1923 these were awarded to the following members of the class of 1925 whose grades contained not less than sixty-five per cent. *A*, and one hundred per cent. *A* and *B*:

GRACE WESTERMAN ALLSOP

MARJORIE CLARISSA ROACH

CHARLOTTE TEMPEST PERRY

FAITH LILLBURN ROGERS

ROSE ALICE WHELAN

FINAL HONORS

In 1923 there were awarded to the following members of the class of 1923:

I. Final honors:

HELEN BROWN AVERY, *in Biology*
 DOROTHY FRINK PATTON, *in English*
 GRACE DAUER SHEIN, *in English*
 ELIZABETH THATCHER STAFFORD, *in Mathematics*
 NELLIE CLAYTON STOKES, *in Mathematics*
 FRANCES MAY WRIGHT, *in Mathematics*

II. Final highest honors:

RUTH ALMIRA LOTHROP, *in French*
 RUTH WILMARTH MARVEL, *in German*

FELLOWSHIPS, SCHOLARSHIPS, AND FINANCIAL AID

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THE aid which the Women's College gives to students is of three kinds: awards from fellowship, scholarship, and aid funds; loans; payment in cash for services rendered.

FELLOWSHIP FUNDS

THE EMMA JOSEPHINE (AYER) ARNOLD ARCHÆOLOGICAL FELLOWSHIP. A fund of ten thousand dollars, given by Dr. Oliver H. Arnold in memory of his wife. The income is awarded, first, to a member of the graduating class, or, second, to a graduate of not more than ten years' standing, who is adequately prepared for post-graduate work in Archæology, either Classical or Oriental, and who through scholarly attainments and by habits of zealous and diligent study gives great promise of a useful and successful career. The income is to be applied to the expenses of a one, two, or three year course in Archæology either in the United States or in any foreign country. In case there is no applicant of sufficient merit among the graduates of the Women's College, the Fellowship is to be awarded for one year to a male graduate of the University who meets the above requirements. If there are no applicants for the use of this Fellowship in Archæology, it is to be given for one year of post-graduate work in Higher Mathematics to a graduate of the Women's College who has exceptional ability and intends to follow the teaching of Mathematics as a profession. Applications for this Fellowship should be accompanied by academic records, testimonials as to character, ability, and health, specimens of written work, and a statement of the applicant's plan of work, and should be sent to the Dean of the Women's College before January 1. For 1923-24 the Fellowship was awarded to

MIRIAM AMY BANKS

THE ANNE CROSBY EMERY ALUMNÆ FELLOWSHIP. Founded by the Alumnæ Association of Brown University in 1914. The purpose of the Fellowship, maintained in honor of the second dean of the Women's College in Brown University, is to stimulate the intellectual life of the undergraduate students. It is awarded as an academic honor to a member of the graduating class on the basis of scholarly ability, excellence and breadth of general character, and good health. This Fellowship is to be used for a year of graduate study at any American university or college of acknowledged standing. It is not to be applied for, but is awarded each year, if there is a candidate of sufficient

excellence. The formal announcement of the award is made by the Dean at Chapel exercises. For 1923-24 the Fellowship was awarded to

FRANCES MAY WRIGHT, A.B.

THE OLIVER CROMWELL GORTON ARNOLD BIOLOGICAL FELLOWSHIP. Awarded annually for post-graduate work to a student, man or woman, in accordance with the requirements printed on page 153.

THE ASSOCIATION TO AID SCIENTIFIC RESEARCH FOR WOMEN. Alumnae of Brown University who hold the degrees of Ph.D. or M.D. are eligible to compete for the prizes offered by the Association. Application for information should be made to Mrs. Samuel Clarke, Williamstown, Mass.

THE ALBERT HARKNESS FUND provides free tuition at the American School of Classical Studies at Athens for adequately prepared graduates of Brown University. See page 145.

SCHOLARSHIP FUNDS

THE SARAH E. DOYLE SCHOLARSHIP, of one thousand dollars.

THE SARAH SUTTON SCHOLARSHIP, of one thousand dollars, founded by one of her daughters.

THE DANIELS SCHOLARSHIP, of twenty-five hundred dollars.

THE HOWARD SCHOLARSHIP, of one thousand dollars, presented by James Leland Howard.

THE THAYER SCHOLARSHIP, founded by Edward C. Thayer.

THE MARIA STORRS PECK SCHOLARSHIP, of one thousand dollars, presented by her sisters.

THE ELI THAYER SCHOLARSHIP OF THE OREADS, of three thousand dollars, founded by the Oread Collegiate Institute Association.

THE THREE WILLIAM FULLER AYER SCHOLARSHIPS, two of two thousand dollars each, one of one thousand dollars, founded by Dr. Oliver H. Arnold.

THE DAVID W. HOYT SCHOLARSHIP, of twenty-seven hundred dollars, founded by the Alumni Association of the Providence English High School.

THE SUSAN E. KING SCHOLARSHIP, of one thousand dollars.

THE CLARA ELIZABETH COMSTOCK SCHOLARSHIP, of one thousand dollars, presented by Louise Dearborn Gage.

THE ZILPHA WILLIAMS, THE ISABELLA POTTER, AND THE JOSEPHINE HAZARD SCHOLARSHIPS. Three of three thousand dollars each, founded by Josephine White.

BROWN UNIVERSITY

THE ELIZABETH BUFFUM BROWNELL SCHOLARSHIP, of four thousand dollars, founded by Mary Arnold Brownell.

THE NANCY BRIGGS WILLIAMS SCHOLARSHIP of fifteen hundred dollars.

THE ALICE D. MUMFORD SCHOLARSHIP of one thousand dollars, named in honor of the former Head of the Girls' Department at the Providence English High School.

AID FUNDS

THE CHURCHILL FUND, founded by the Rhode Island Women's Club.

Reduction in tuition fees is made by the College to some students, provided they are in need of such aid and maintain a high standard of scholarship. Application for reduction of tuition fees should be made in writing to the Dean of the Women's College on or before May 1.

LOAN FUNDS

A Loan Fund, established and maintained by the Rhode Island Society for the Collegiate Education of Women, is available for the use of Sophomores, Juniors, and Seniors, who may borrow moderate sums at a low rate of interest. Further information may be obtained from the Dean of the Women's College.

A Loan Fund, established and maintained by the Alumnæ Association of Brown University, is available for the use of Freshmen who, in the judgment of the Alumnæ trustees of the Fund, shall show promise of scholarly attainment.

SERVICE

The Women's College is able to give employment to a small number of students, as assistants in the libraries, laboratories, and lunch room. Not more than two hours a day are ordinarily required of any student; the compensation is made at definite rates. Applications for such positions should be made to the Dean.

THE COLLEGE BUILDINGS

THE Women's College has a separate recitation hall, gymnasium, dormitories, and basket-ball and tennis grounds; but uses the various libraries, laboratories, and museums of the University. The grounds of the Women's College are an eighth of a mile from the University, with the main entrance at 172 Meeting Street. Pembroke Hall, the recitation building, contains the offices of the Dean and the Registrar, the chapel, recitation rooms, a reference library of about 5000 volumes, a reading room, and a lunch room. Sayles Gymnasium contains the office of the Director of Hygiene and Physical Education, a large hall with a gallery, a rest room, a room for corrective work, and a social room; the basement is fitted with dressing rooms, lockers, bathrooms, needle and shower baths, and bowling alleys.

The College has four dormitories. The rooms are equipped with the ordinary furniture. Miller Hall, 118 Cushing Street, contains fifty-six single rooms for students, together with a library, and reception, dining, and sitting rooms. Metcalf Hall, 98 Cushing Street, contains fifty-four single rooms for students, together with a library, an infirmary, reception and dining rooms. East House, 188 Meeting Street, contains twelve double rooms for students, together with sitting rooms. Students living in this house take their meals in the dining room of Metcalf Hall. Sharpe House, 130 Angell Street, contains six double and two single rooms for students, together with reception and dining rooms. The charge in Miller and Metcalf Halls for a corner room and board is \$460, for other rooms and board, \$450. The charge in East and Sharpe Houses for double rooms and board is \$425 per student.

For dormitory students there is an Infirmary in charge of a resident nurse. It consists of bedrooms, bathrooms, and a dispensary on a separate corridor in Metcalf Hall, and is completely equipped for the care of ordinary cases of sickness. Students with serious contagious diseases are sent, under proper supervision, to hospitals.

All dormitory students pay an Infirmary fee, estimated at \$10.

Printed plans of the dormitories, together with other information, may be obtained from the Dean of the Women's College.

Students who cannot secure rooms on the campus are required to live in houses approved by the College.

PROVISION FOR WORSHIP, HEALTH, AND RECREATION

CHAPEL

CHAPEL services are held in Pembroke Hall five days a week. Attendance is required. One chapel service each month is in charge of the Christian Association.

HYGIENE

The Department of Hygiene and Physical Education aims to encourage habits of healthful living, with special emphasis upon proper posture, rational exercise, and rest. To this end all new students are required to attend lectures in Hygiene, conferences are held, and physical examinations are given before the assignment of exercise and at the end of the year by the Instructors in Hygiene and by the college physician. Facilities are provided for exercise and rest, and there is a reference library of books on practical hygiene. Students who, because of their organic condition or temporary disability, are unable to take the regular class work, are given restricted or individual exercise, or prescribed periods in the rest room, as a substitute. Outdoor sports are supervised by the Instructors in Hygiene.

THE LIDA SHAW KING DECENNIAL FUND

This Fund was founded by the Rhode Island Society for the Collegiate Education of Women. The income is to be used "for the entertainment of guests, and the maintenance of the social and cultural side of college life."

STUDENT ORGANIZATIONS

The Student Government Association is an organization of the entire student body for promoting the welfare of the College. This organization, through an honor system, carries out the social and academic regulations entrusted to it by an agreement between the President of the University and the Dean of the Women's College, on the one hand, and the student body on the other. The dormitory students have their own organization in each hall, and have the control of the conduct of the students in the halls of residence. Student government has the support and coöperation of the college administration.

The Christian Association conducts monthly meetings, generally addressed

by some speaker of experience, and provides classes for the study of the Bible and of missions. There are French and Mathematical Clubs, which carry on their work in connection with the academic departments concerned. The Question Club, a society composed of the presidents of all the large student organizations, is helpful in forming opinion on matters of student interest. There are three undergraduate publications, *The Record*, a fortnightly college newspaper, *The Sepiad*, a literary periodical, and *The Brün Mael*, an annual review of college life. Interest in the drama and music is fostered by a dramatic society; by a musical club; by the annual presentation of an original Sophomore masque; and by an annual song contest between the classes. The Athletic Association coöperates with the Department of Hygiene by arranging bowling, tennis, and basket-ball tournaments. Class organizations, an all-college society, and an advisory system, whereby the Senior class is given responsibility for the welfare of the Freshmen, promote sociability and the spirit of helpfulness.

Lectures, concerts, and other entertainments are provided from time to time by the College.

FORM OF BEQUEST

All gifts, legacies, and bequests for the Women's College should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations," and designated for the use of the Women's College.

STUDENTS IN THE WOMEN'S COLLEGE

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SENIORS: CLASS OF 1924

NAME		RESIDENCE
Doris Anthony	A	<i>East Providence</i>
Elizabeth Apollonio	A	<i>Boston, Mass.</i>
Carol Bernice Bogman	P	<i>Apponaug</i>
Dorothea Lucy Brooks	A	<i>Pittsburgh, Pa.</i>
Ruth Miriam Brown	P	<i>Harmony</i>
Dorothy Angell Bundy	A	<i>North Woodstock, Ct.</i>
Eloise Frye Burt	A	<i>Auburn</i>
Lois Campbell	P	<i>Providence</i>
Mildred Eleanor Carlen	P	<i>Providence</i>
Irene Dorothy Carlin	P	<i>Pawtucket</i>
Mary Sharpe Chafee	P	<i>Providence</i>
Hazel Miriam Chapman	P	<i>Central Village, Ct.</i>
Ruth Marion Clifford	P	<i>Brockton, Mass.</i>
Alice Mabel Collins	A	<i>Rumford</i>
Goldie Corash	A	<i>Worcester, Mass.</i>
Mary Louise Darmedy	A	<i>Mansfield, Mass.</i>
Glenna Wedman Day	A	<i>Brockton, Mass.</i>
Kathryn Marion Denny	A	<i>Pawtucket</i>
Alice Taylor Dodge	P	<i>Bloomfield, N. J.</i>
Helen Wooddell Fenner	A	<i>Auburn</i>
Charlotte Ferguson	A	<i>Marblehead, Mass.</i>
Thelma Alverna Garland	A	<i>Boston, Mass.</i>
Katharine Agnes Gilbert	A	<i>Montpelier, Vt.</i>
Deborah Sampson Giroux	A	<i>Springfield, Mass.</i>
Dorothy Henderson Gray	A	<i>Providence</i>
Malvina Mary Grieves	P	<i>Providence</i>
Gretchen Elizabeth Gugel	P	<i>Long Branch, N. J.</i>
Amelia May Harris	A	<i>Pawtucket</i>
Anne Hartman	P	<i>Red Bank, N. J.</i>
Esther Alice Haskard	P	<i>Woonsocket</i>
June Dudley Heller	A	<i>Lancaster, Pa.</i>
Myrtle Page Hodgkins	A	<i>Providence</i>
Hilda Marion Hoffman	P	<i>Lyndonville, Vt.</i>
Grace Arline Hopkins	A	<i>Taunton, Mass.</i>
Annabel Howarth	A	<i>North Providence</i>
Anna Marie Iannaccio	P	<i>Elizabeth, N. J.</i>
Hope Jillson	P	<i>Providence</i>

THE WOMEN'S COLLEGE

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NAME		RESIDENCE
Ruth Dorothea Johnson	P	<i>Providence</i>
Laura Udell Keilty	A	<i>Providence</i>
May Baggett Kelly	A	<i>Norwich, Ct.</i>
Orina Winifred Kidd	P	<i>Fall River, Mass.</i>
Katherine Leach	A	<i>Fairfield, Ct.</i>
Cecilia Marion Lennon	A	<i>Pawtucket</i>
Ethel Esther Lippman	A	<i>Providence</i>
Jane Collins Luce	A	<i>Chicago, Ill.</i>
Verna Ruth McElroy	A	<i>Woodbridge, N. J.</i>
Cécile Louise McInnis	P	<i>Brockton, Mass.</i>
Dorothy Carroll Maguire	A	<i>Providence</i>
Florence May	A	<i>Providence</i>
Gladys May Mowry	A	<i>Oneco, Ct.</i>
Lois Elizabeth Munroe	P	<i>East Providence</i>
Mildred Maclaren Murray	A	<i>Fall River, Mass.</i>
Fern Falloon Nutter	A	<i>Providence</i>
Dorothy Osborne	A	<i>Edgewood</i>
Lucile Gertrude Pettibone	P	<i>New Milford, Ct.</i>
Priscilla Alice Pooler	A	<i>Webster, Mass.</i>
Miriam Avis Price	A	<i>Providence</i>
Fannie Rapfogel	P	<i>Brooklyn, N. Y.</i>
Marjorie Lillia Rich	P	<i>Providence</i>
Rose Nora Agnes Sisca	A	<i>Fall River, Mass.</i>
Ruth Adams Small	A	<i>Pawtucket</i>
Vera Irene Smith	P	<i>Amherst, Mass.</i>
Phyllis Stanley	P	<i>Newark, N. J.</i>
Florence Elizabeth Sweeney	P	<i>Trenton, N. J.</i>
Marjorie Tucker	A	<i>Milton, Mass.</i>
Ruth Louise Vinton	A	<i>Roselle, N. J.</i>
Nelle Thompson Waggener	P	<i>La Belle, Mo.</i>
Grace Wamsley	A	<i>Charleston, S. C.</i>
Mary Weaver	A	<i>Lancaster, Pa.</i>
Charlotte Cecilia West	A	<i>Washington, D. C.</i>
Annabel Merrill Wheaton	A	<i>New York, N. Y.</i>
Elizabeth Lee Young	A	<i>Providence</i>

JUNIORS: CLASS OF 1925

Margaret Elizabeth Adams	P	<i>Wickford</i>
Laura Eleanor Allen	P	<i>Dalton, Mass.</i>
Grace Westerman Allsop	A	<i>Providence</i>
Gertrude Louise Annan	A	<i>Providence</i>

NAME		RESIDENCE
Ellen Ellery Appel	P	<i>Lancaster, Pa.</i>
Muriel Frances Austin	P	<i>Norwood</i>
Hope Minerva Baker	A	<i>Seekonk, Mass.</i>
Margaret Mary Banigan	A	<i>Manchester, N. H.</i>
Frances Augusta Bennett	A	<i>Manchester, N. H.</i>
Catherine Hurley Black	A	<i>Providence</i>
Dorothy Miller Bohn	A	<i>Reading, Pa.</i>
Anne Jean Borden	P	<i>Providence</i>
Alice Elizabeth Bourne	A	<i>Phillipsdale</i>
Harriet Martha Boyd	P	<i>Easthampton, Mass.</i>
Mildred Louise Cobb	A	<i>Attleboro, Mass.</i>
Beatrice Elizabeth Coleman	A	<i>Providence</i>
Margaret Frances Cox	A	<i>Fall River, Mass.</i>
Helen Cecilia Darby	A	<i>River Point</i>
Ruth Davidson	P	<i>Providence</i>
Mildred Dolloff	A	<i>Bath, Me.</i>
Hope Dorman	A	<i>Belfast, Me.</i>
Adrianna Alida Dykstra	P	<i>Wakefield</i>
Doris Irva Eccleston	P	<i>New Bedford, Mass.</i>
Elizabeth Anna Eckels	P	<i>Providence</i>
Margaret Eisenwinter	A	<i>Watertown, Ct.</i>
Margaret Winifred Enslin	A	<i>Bristol</i>
Celia Ernstof	A	<i>Providence</i>
Adelaide Emily Faris	P	<i>Providence</i>
Catherine Frances Fitzgerald	A	<i>Pawtucket</i>
Lydia Metcalf Fletcher	A	<i>Providence</i>
Rose Mary Fogarty	P	<i>Providence</i>
Ivy Reece Fricker	P	<i>Providence</i>
Elinor Gertrude Hall	A	<i>Dudley, Mass.</i>
Grace Eleanor Hanson	P	<i>Providence</i>
Alice Gertrude Hathaway	P	<i>Providence</i>
Ethel Marion Haven	A	<i>Providence</i>
Katharine Anna Heady	A	<i>Springfield</i>
Mary Catherine Hinchey	A	<i>Palmer, Mass.</i>
Marion Irene Hood	A	<i>Pawtucket</i>
Mildred Louisa Hoyle	A	<i>Woonsocket</i>
Amy Hull	A	<i>Providence</i>
Luella Rita Jeffrey	P	<i>Sea Bright, N. J.</i>
Nancy Christine Judkins	A	<i>Hope</i>
Hazel Brandon Lawrence	A	<i>Falmouth, Mass.</i>
Helen Lucille Leary	P	<i>Franklin, Mass.</i>
Beulah Winifred Leathers	A	<i>Oaklawn</i>
Helen Buckminster Leavitt	A	<i>Natick, Mass.</i>

THE WOMEN'S COLLEGE

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NAME		RESIDENCE
Marguerite Jackson Lingham	P	<i>Providence</i>
Mary Annunciata Lomax	A	<i>Fall River, Mass.</i>
Barbara Philippa McCarthy	A	<i>Providence</i>
Helen Bell McQueston	A	<i>Hadley, Mass.</i>
Helen Louise Martin	A	<i>Auburn</i>
Katherine Mayor	P	<i>Providence</i>
Elva Lucile Munroe	A	<i>Providence</i>
Elizabeth Marion Newton	A	<i>Whitman, Mass.</i>
Gertrude Oberempt	P	<i>Easthampton, Mass.</i>
Alice Marie Oddie	P	<i>Brockton, Mass.</i>
Dorothy Eleanor Palmer	P	<i>Brookline, Mass.</i>
Bertha Dexter Peacock	A	<i>Providence</i>
Marguerite Amelia Perregaux	A	<i>Saylesville</i>
Charlotte Tempest Perry	P	<i>Greene</i>
Hannah Scott Pickels	A	<i>Lawrence, Mass.</i>
Fannie Emogene Price	A	<i>Pawtucket</i>
Gurda Estella Pritchard	A	<i>Fall River, Mass.</i>
Dorothy Louise Putnam	A	<i>Providence</i>
Mary Elizabeth Ralston	A	<i>Spokane, Wash.</i>
Anna Julia Redinger	A	<i>Providence</i>
Marjorie Clarissa Roach	A	<i>Springfield, Mass.</i>
Faith Lillburn Rogers	A	<i>Phenix</i>
Lyla Eloise Rogers	A	<i>Springfield, Mass.</i>
Elizabeth Sanford	P	<i>Bristol</i>
Elizabeth Simpson	A	<i>Howard</i>
Elizabeth Webster Smart	A	<i>Tilton, N. H.</i>
Doris Virginia Smith	A	<i>Providence</i>
Elinor Van Dorn Smith	A	<i>Hadley, Mass.</i>
Helen Boyd Smith	A	<i>Latrobe, Pa.</i>
Grace Lorah Snavelly	A	<i>Reading, Pa.</i>
Aimée Lee Spencer	A	<i>Auburn</i>
Dorothea Salome Sprague	P	<i>Milton, Mass.</i>
Iva Alzada Stone	A	<i>Cranston</i>
Edith May Summerscales	A	<i>Pawtucket</i>
Gladys Taylor	P	<i>East Providence</i>
Ruth Francis Thomson	P	<i>Amherst, Mass.</i>
Mildred Myrtle Thorburn	A	<i>Woodstock, Vt.</i>
Hope Thornton	A	<i>Edgewood</i>
Marjorie Helen Walker	A	<i>Rumford</i>
Violet Beatrice Warfield	A	<i>Washington, D.C.</i>
Doris Ethel Watts	A	<i>Springfield, Mass.</i>
Rose Alice Whelan	P	<i>Campello, Mass.</i>
Elizabeth Whitney	A	<i>Boston, Mass.</i>

NAME		RESIDENCE
Mabel Aldrich Williston	A	<i>Providence</i>
Mary Rebecca Wright	A	<i>Rochester, N. H.</i>

SOPHOMORES: CLASS OF 1926

Constance Warren Arnold	A	<i>Milton, Mass.</i>
Frances Dorothy Bene	P	<i>Providence</i>
Anna Harlow Blossom	P	<i>Fair Haven, Mass.</i>
Nettae Boretz	A	<i>Colchester, Ct.</i>
Gladys Pegroulie Bozyan	A	<i>Newport</i>
Marion Mary Elizabeth Broadbent	A	<i>Fall River, Mass.</i>
Marian Nadine Brooks	A	<i>Providence</i>
Anna Carpenter Bullock	A	<i>Providence</i>
Deborah Miner Burton	P	<i>Providence</i>
Helen Jane Chadwick	P	<i>Providence</i>
Eleanor Elizabeth Clarke	A	<i>Wickford</i>
Lena Mae Daily	A	<i>Natick</i>
Martha Alice Ingham Dickie	P	<i>Providence</i>
Gertrude May Doyle	A	<i>Worcester, Mass.</i>
Hope Hills Elmer	P	<i>Hamilton, N. Y.</i>
Martha Packard Farwell	A	<i>Brockton, Mass.</i>
Imogen Marion Fenner	P	<i>Providence</i>
Ethel Mildred Fish	A	<i>Providence</i>
Doris Wilfred Fisher	A	<i>Campello, Mass.</i>
Elizabeth Lincoln Fiske	A	<i>Sharon, Mass.</i>
Prudence Davis Flagg	A	<i>Providence</i>
Agnes Julia Flaherty	A	<i>Valley Falls</i>
Caroline Flanders	P	<i>Meshanticut Park</i>
Yvette Winifred Frank	A	<i>Providence</i>
Elizabeth Hicks Fuller	P	<i>Providence</i>
Hope Victoria Gilbert	P	<i>Cranston</i>
Marjory Ann Goff	P	<i>Warwick</i>
Edna May Goggin	A	<i>Warren</i>
Caroline Griffith	P	<i>Providence</i>
Sarah Grossman	A	<i>Providence</i>
Hattie Louise Harris	A	<i>Pawtuxet</i>
Elizabeth Hindley	P	<i>Lonsdale</i>
Dorothy Ethel Hofmann	A	<i>Stratford, Ct.</i>
Gladys Elizabeth Holmes	P	<i>Farley, Mass.</i>
Marjorie Elberta Jenison	A	<i>Providence</i>
Doris Elizabeth Johnson	A	<i>Woonsocket</i>
Ruth Evelyn Jonah	A	<i>Cranston</i>

NAME		RESIDENCE
Ethel Miriam Kearns	P	<i>Providence</i>
Mary Virginia Kenny	A	<i>Fall River</i>
Lois Klein	A	<i>Cleveland, Ohio</i>
Marion Louise Kneeland	A	<i>Worcester, Mass.</i>
Virginia Glaze Knerr	A	<i>Reading, Pa.</i>
Dorothy Jane Korn	A	<i>Lancaster, Pa.</i>
Elizabeth Jane Linsz	P	<i>Wheeling, W. Va.</i>
Katherine Frances Lomax	A	<i>Fall River, Mass.</i>
Catherine Marie Long	A	<i>Lancaster, Pa.</i>
Editha Lovejoy	A	<i>Pascoag</i>
Maida Lowden	P	<i>Gaithersburg, Md.</i>
Helen Mary-Elizabeth McCarthy	P	<i>Providence</i>
Margaret Mary McGrath	A	<i>Hudson, Mass.</i>
Sarah Elizabeth MacIntyre	A	<i>Providence</i>
Margaret Mary MacLeod	A	<i>Bellows Falls, Vt.</i>
Sadie Virginia McMichael	A	<i>Blackstone, Mass.</i>
Cecilia Clogher Mary Mahoney	P	<i>Providence</i>
Florence Mahoney	A	<i>Fall River, Mass.</i>
Caroline Jean Marr	A	<i>Fall River, Mass.</i>
Frances Hood Mason	A	<i>Pawtucket</i>
Margaret Matheson	A	<i>Bristol</i>
Norma Mathewson	A	<i>Bristol</i>
Margaret Elizabeth Meiklejohn	P	<i>Pawtucket</i>
Barbara Dyer Mitchell	P	<i>Providence</i>
Elizabeth Morse	A	<i>Pawtucket</i>
Mary Anne Murphy	A	<i>Newport</i>
Pauline Nardelli	P	<i>Providence</i>
Dorothy Naomi Nelson	A	<i>Providence</i>
Marguerite Dorothea Nolan	A	<i>Providence</i>
Pauline Katherine O'Connor	A	<i>Newport</i>
Dorothy Ruth Olevson	A	<i>Providence</i>
Margaret Frances Phelan	A	<i>Newport</i>
Dorothy Baumes Phelps	P	<i>Suffield, Ct.</i>
Winifred Frances Pine	A	<i>Providence</i>
Sylvia Post	A	<i>New York, N. Y.</i>
Dorothy Isabel Pratt	A	<i>Brockton, Mass.</i>
Esther Berry Quackenboss	A	<i>Canaan, N. Y.</i>
Ruth Elizabeth Rees	P	<i>Providence</i>
Edith Simmons Remington	A	<i>Providence</i>
Aldyth Jane Roberts	A	<i>Providence</i>
Ella Morse Rockwood	A	<i>North Franklin, Ct.</i>
Dorothy Mary Russell	A	<i>Providence</i>
Lucy Genevieve Russell	A	<i>Pawtucket</i>

BROWN UNIVERSITY

NAME		RESIDENCE
Mary-Light Schaeffer	A	<i>Lancaster, Pa.</i>
Eunice Elizabeth Sharp	A	<i>Plainville, Mass.</i>
Elizabeth Mary Smith	A	<i>Woonsocket</i>
Mildred Smith	A	<i>Providence</i>
Belinda Snow	A	<i>Raynham Center, Mass.</i>
Edith Gates Snow	A	<i>Spencer, Mass.</i>
Dorothy May Stafford	P	<i>Maplewood, N. J.</i>
Dolly Warren Stiles	A	<i>Mt. Vernon, N. Y.</i>
Elizabeth Longstreet Stillwell	A	<i>Somerville, N. J.</i>
Minnie Avis Sugden	A	<i>Providence</i>
Beulah Elizabeth Todd	A	<i>North Attleboro, Mass.</i>
Helen Joslin True	P	<i>Providence</i>
Claudine Carolyn Walford	A	<i>Edgewood</i>
Mary Keith Wesson	A	<i>Springfield, Mass.</i>
Rebecca Wiggin	A	<i>Spencer, Mass.</i>
Florence Elizabeth Williams	A	<i>Kingston, Pa.</i>
Margaret Love Williamson	P	<i>Campello, Mass.</i>
Hazel Marie Woodmansee	A	<i>Providence</i>
Ruth Lillian Woolf	A	<i>Providence</i>

FRESHMEN: CLASS OF 1927

Margaret Dorothy Abel	P	<i>Providence</i>
Clemence Buonie Allen	A	<i>Danbury, Ct.</i>
Elizabeth Pearce Armstrong	A	<i>Providence</i>
Grace Leslie Arnold	P	<i>Fall River, Mass.</i>
Ellen Cora Belknap	P	<i>Sterling, Ct.</i>
Catherine Rachel Bond	A	<i>South Lancaster, Mass.</i>
Margaret Adelaide Borden	A	<i>Adamsville</i>
Marion Harlan Breen	A	<i>Winchester, Mass.</i>
Blanche Ellen Brown	P	<i>Providence</i>
Doris Brown	A	<i>Woolwich, Me.</i>
Zenobia Miller Bundy	P	<i>Washington, D. C.</i>
Martha Eloise Burdick	A	<i>Westerly</i>
Annie Lucy Burnham	P	<i>Providence</i>
Julia Miner Burton	P	<i>Providence</i>
Veronica Eleanor Carlos	A	<i>Pascoag</i>
Mary Potwin Collins	A	<i>Brandon, Vt.</i>
Grace Louise Corbet	A	<i>Wethersfield, Ct.</i>
Helen Laura Crafts	A	<i>Huntington, Mass.</i>
Anne Geraldine Crawford	P	<i>Providence</i>
Barbara Decring Cutter	P	<i>Dedham, Mass.</i>

THE WOMEN'S COLLEGE

261

NAME		RESIDENCE
Catherine Harriet Davidson	A	<i>Providence</i>
Gwendolyn Davis	A	<i>Providence</i>
Mildred Irene Davis	A	<i>Centerville</i>
Susanna Frances Donahue	A	<i>Woonsocket</i>
Elizabeth Osborn Douglas	A	<i>Rowayton, Ct.</i>
Agnes Anna Duffy	A	<i>Pawtucket</i>
Catherine Eisenberg	A	<i>Pawtucket</i>
Mary Carpenter Emerson	P	<i>East Providence</i>
Anna Mildred Fagan	A	<i>Pascoag</i>
Mildred Louise Fisher	A	<i>Howard</i>
Anna Louise Flynn	A	<i>Providence</i>
Florence Amelia Fortin	A	<i>Quidneck</i>
Mary Franklin	A	<i>Newport</i>
Winifred Marian Garver	A	<i>Des Moines, Ia.</i>
Elinor Frances Gilbert	A	<i>Fall River, Mass.</i>
Hazel May Gilbert	A	<i>East Providence</i>
Alice Mary Giles	A	<i>Springfield, Mass.</i>
Ethel Goodwin	P	<i>Newton Highlands, Mass.</i>
Lyall Beatrice Grogan	A	<i>Centerville</i>
Catherine White Grout	A	<i>Central Falls</i>
Dorothy Miller Hampson	A	<i>Edgewood</i>
Annie Wyatt Handley	A	<i>Cranston</i>
Ruth Marie Hardendorff	A	<i>North Amherst, Mass.</i>
Doris Heaton	P	<i>Washington, D. C.</i>
Anona Hazel Holloway	P	<i>Plainfield, Ct.</i>
Mary Margaret Hurley	A	<i>Fall River, Mass.</i>
Henrietta Johnston	A	<i>Lonsdale</i>
Hope Frances Kane	A	<i>Pontiac</i>
Margaret Irene Kenny	A	<i>Fall River, Mass.</i>
Hazel Kessler	A	<i>Providence</i>
Dorothy Mildred King	A	<i>Woonsocket</i>
Marjorie Marion Knopp	P	<i>Waterbury, Ct.</i>
Louise Baron Lovewell	A	<i>Providence</i>
Beatrice Thompkins Luther	A	<i>Providence</i>
Ruth Marjorie McColley	A	<i>Providence</i>
Alice Anna McGarry	P	<i>Wrentham, Mass.</i>
Adelaide McLaughlin	A	<i>Worcester, Mass.</i>
Ruth Eleanor Mackie	A	<i>Warren</i>
Mildred Elizabeth Marcett	P	<i>Providence</i>
Muriel Gilkie Mayo	P	<i>Watertown, Mass.</i>
Mildred Helene Mead	P	<i>Providence</i>
Katherine Louise Miller	P	<i>Boston, Mass.</i>
Dorothy Lee Millington	A	<i>Amherst, Mass.</i>

BROWN UNIVERSITY

NAME		RESIDENCE
Mildred Venetia Mott	A	<i>Block Island</i>
Pruda Armington Moulton	P	<i>Providence</i>
Lois Alice Northup	A	<i>Anthony</i>
Margaret Frances O'Neil	P	<i>Providence</i>
Lois Mead Patten	A	<i>Skowhegan, Me.</i>
Katharine Thayer Patton	A	<i>Newton Highlands, Mass.</i>
Dorothea Humphrys Pearson	A	<i>Providence</i>
Edythe Emily Pine	A	<i>Edgewood</i>
Lida Katherine Puffer	P	<i>Foxboro, Mass.</i>
Helen Adams Ridgway	A	<i>Greene</i>
Dorothy Anne Ross	A	<i>Riddlesburg, Pa.</i>
Claire Laurena Ryan	A	<i>East Providence</i>
Marjorie Whitcomb Sallie	A	<i>Foxboro, Mass.</i>
Frances Beulah Salomon	A	<i>Providence</i>
Alverda Batchelder Sammis	A	<i>Providence</i>
Mildred Chesbro Saunders	A	<i>Westerly</i>
Esther Helen Shaw	A	<i>Three Rivers, Mass.</i>
Dorothy Deborah Shurtleff	P	<i>Providence</i>
Marjorie Sidelinger	A	<i>West Barrington, Mass.</i>
Charlotte Ayres Smith	P	<i>Adams, Mass.</i>
Louise Elizabeth Spofford	A	<i>Claremont, N. H.</i>
Gertrude Purington Squires	A	<i>Buffalo, N. Y.</i>
Helen Sutcliffe	A	<i>Wareham, Mass.</i>
Pauline Folsom Swift	A	<i>Plymouth, Mass.</i>
Laura Sydney	A	<i>Providence</i>
Aileen Bertha Terry	A	<i>Warren, Mass.</i>
Dorothy Vanderburgh	A	<i>Yonkers, N. Y.</i>
Kathryn Verlenden	P	<i>Westfield, N. J.</i>
Miriam Estelle Ware	P	<i>Danielson, Ct.</i>
Margaret Waterman	A	<i>Providence</i>
Harriette Louise Whitmore	A	<i>Uxbridge, Mass.</i>
Laura Belle Wood	P	<i>Greenwich, Ct.</i>
Anna Emma Wunsch	A	<i>Providence</i>

SPECIAL STUDENTS

Mary Irene Adams	P	<i>Providence</i>
Ruth Agar		<i>Providence</i>
Mildred Leigh Anderson	A	<i>Edgewood</i>
Julia Chamblin		<i>Providence</i>
Alice Marie Dupuis		<i>Pawtucket</i>
Evelyn Giusti	A	<i>Pawtucket</i>

NAME	RESIDENCE
Mary Emma Hume	<i>Thornton</i>
Minnie Luther	<i>Providence</i>
Lucy Frances Reynolds	<i>Washington, D. C.</i>
Mildred Taber	<i>Providence</i>
Mildred Louise Thornton	<i>Providence</i>

A

APPENDIX

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THE RHODE ISLAND ALPHA OF THE PHI BETA KAPPA SOCIETY†

WOMEN'S SECTION

OFFICERS, 1923-24

Chairman: SUSAN S. BRAYTON.

Vice-Chairman: M. GRACE FROST.

Secretary-Treasurer: MARION P. HARLEY.

WOMEN ELECTED IN 1923

Seniors: HELEN BROWN AVERY, MILDRED RUSSELL BAILEY, ELEANOR BEERS,
SARAH JACOBSON, RUTH WILMARTH MARVEL, DOROTHY FRINK PATTON, MARY
ELMIRA SCHROEDER, CAROLYN REBECCA SMITH, NELLIE CLAYTON STOKES,
RUTH MARIETTA WHITE, FRANCES MAY WRIGHT.

Juniors: ELOISE FRYE BURT, MILDRED MACLAREN MURRAY.

THE BROWN CHAPTER OF THE SOCIETY OF THE SIGMA XI†

ASSOCIATE MEMBERS ELECTED IN 1923

Seniors: HELEN BROWN AVERY, ELIZABETH THATCHER, STAFFORD, NELLIE
CLAYTON STOKES, FRANCES MAY WRIGHT.

Junior: MILDRED ELEANOR CARLEN.

† See also page 217.

SUMMARY OF REGISTRATION

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GRADUATE STUDENTS

Men	85
Women	72
	<hr/> 157

UNDERGRADUATE MEN

Seniors	197
Juniors	293
Sophomores	330
Freshmen	385
Special Students	28
Total	<hr/> 1233

SCHOOL OF EDUCATION

Graduates	2
Second Year Students	18
First Year Students	22
Special Students	9
	<hr/> 51

THE WOMEN'S COLLEGE

Seniors	72
Juniors	92
Sophomores	99
Freshmen	96
Special Students	11
Total	<hr/> 370

BROWN UNIVERSITY

GENERAL SUMMARY

Graduate Students	157
Undergraduate Men	1233
School of Education	51
The Women's College	370
	<hr/> 1811
Deduct for names counted twice	1
Total	<hr/> 1810
Registered in Extension Courses, first semester, 1923-24, and not included above	1552
Total number of persons receiving instruction from the University	<hr/> 3362

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